

~~<110> Frudakis, Tony N.
Smith, John M.
Reed, Steven G.
Misher, Lynda
Retter, Marc W.
Dillon, Davin C.~~

~~<120> COMPOSITIONS AND METHODS FOR THE
TREATMENT AND DIAGNOSIS OF BREAST CANCER~~

<130> 210121.419C7

<140> US

<141> 2000-03-23

<160> 317

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 363

<212> DNA

<213> Homo sapien

<400> 1

ttagagaccc	aattgggacc	taattgggac	ccaaatttct	caagtggagg	gagaactttt	60
gacgatttcc	accggtatct	cctcgtgggt	attcagggag	ctgccagaa	acctataaac	120
ttgtctaagg	cgattgaagt	cgtccagggg	catgatgagt	caccaggagt	gttttttagag	180
cacctccagg	aggcttatcg	gatttacacc	ccttttgacc	tggcagcccc	cgaaaatagc	240
catgctctta	atttggcatt	tgtggctcag	gcagccccag	atagtaaaag	gaaactccaa	300
aaactagagg	gattttgctg	gaatgaatac	cagtcagctt	ttagagatag	cctaaaaggt	360
ttt						363

<210> 2

<211> 121

<212> PRT

<213> Homo sapien

<400> 2

Leu	Glu	Thr	Gln	Leu	Gly	Pro	Asn	Trp	Asp	Pro	Asn	Phe	Ser	Ser	Gly
1				5					10					15	
Gly	Arg	Thr	Phe	Asp	Asp	Phe	His	Arg	Tyr	Leu	Leu	Val	Gly	Ile	Gln
			20					25					30		
Gly	Ala	Ala	Gln	Lys	Pro	Ile	Asn	Leu	Ser	Lys	Ala	Ile	Glu	Val	Val
		35					40					45			
Gln	Gly	His	Asp	Glu	Ser	Pro	Gly	Val	Phe	Leu	Glu	His	Leu	Gln	Glu
		50				55					60				
Ala	Tyr	Arg	Ile	Tyr	Thr	Pro	Phe	Asp	Leu	Ala	Ala	Pro	Glu	Asn	Ser

65 70 75 80
 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
 85 90 95
 Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser
 100 105 110
 Ala Phe Arg Asp Ser Leu Lys Gly Phe
 115 120

<210> 3
 <211> 1080
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(1080)
 <223> n = A,T,C or G

<400> 3
 tcttagaatc ttcatacccc gaactcttgg gaaaacttta atcagtcacc tacagtctac 60
 caccatttta ggaggagcaa agctacctca gctcctccgg agccgtttta agatccccca 120
 tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgccc aggtaaatgc 180
 caaaaaaggt cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa 240
 gtgggaaatt gacttttacag aagtaaaacc acaccgggct gggtacaaat accttctagt 300
 actggtagac accttctctg gatggactga agcatttgct accaaaaacg aaactgtcaa 360
 tatggtagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat 420
 agggctctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtca gtaaggcgtt 480
 aaacattcaa tggaagctcc atttgtccta tcgaccaga gctctgggca agtagaacgc 540
 atgaactgca ccctaaaaaa acactcttac aaaattaatc ttaaaaaccg gtgttaattg 600
 tgtaggtctc ctcccttag ccctacttag agttaaggta cacccttac tgggctgggt 660
 tctttacett ttgaaatcat ntttnggaag gggctgccta tcttttctta actaaaaaan 720
 gccatttggg caaaaatttc ncaactaatt tntacgtnc cactctccc caacagggtan 780
 aaaaatctnc tgcccttttc aaggaacat cccatccatt cctnaacaaa aggctgccn 840
 ttcttcccc agttaactnt tttttnttaa aattcccaa aaangaacn cctgctggaa 900
 aaacncccc ctccaanccc cgccnaagn ggaaggttcc cttgaatccc nccccncna 960
 anggccgga accnttaaan tngttcngg ggttnnggcc taaaagnccn atttggtaaa 1020
 cctanaaatt ttttcttttn taaaaccac nntttntttt ttcttaaca aaacctntt 1080

<210> 4
 <211> 1087
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(1087)
 <223> n = A,T,C or G

<400> 4
 tcttagagctg cgcttgatc ccgccacagt gaggagacct gaagaccaga gaaaacacag 60
 caagtaggcc ctttaacta ctcacctgtg ttgtcttcta atttattctg ttttattttg 120

Sub A1
 00000-000000

[illegible]

<400> 5

```
<210> 6
<211> 950
<212> DNA
<213> Homo sapien
```

[illegible]

tetagagctc	gcgccgcgca	gctctaatac	gactcattat	agggcgctcga	ctcgatctca	60
gctcactgca	atctctgccc	ccgggggtcat	gcgattctcc	tgctcagcc	ttccaagtag	120
ctgggattac	agggctgcaa	caccacaccc	ggctaatttt	gtatttttaa	tagagatggg	180
gttttccctt	gttgccann	atgggtctcna	accctgacc	tcmgtgatc	ccccncccn	240
nganctenna	ctgctgggga	tnccgnnnn	nnccctccn	nccnnnnnn	nccnnctcn	300
tnntccttnc	tcnnnnnnn	cnnctnnct	nnctctcnc	cnnntntnt	cnnnncenn	360
cnnccnct	neccnenn	tenctnenn	tnccnnenn	nctnnnnnn	cnnnnctnn	420
cnnctacntc	ntnnnnnn	cctctntnn	cctnnenn	cctnnenn	tnctctctn	480
tnnnnnnnct	cnnnnntct	ctnctnnnn	tnctcnnnn	neccncccc	neccnenn	540
ctnnntnnnn	cnnnnntct	ntnccntnn	nnctcnnnn	cnnctnnnn	nnctntntc	600
cnnccnntc	ctnnctnn	nnntntnn	cnnctnnct	nttnctct	nnntccnn	660
tnntctnc	cnnctcnc	ccccctnt	ctctcncn	nnnnnnnn	nnnnctcnc	720
tnctnnct	ntnnnnnn	tnctnnnn	nnnnnnnn	tnctnnnn	ctnnnnnn	780
tnctnnnn	cnnctnnnn	ctntctct	tnctctct	ctnnctnn	cnnctcnc	840
cnnnnnnnn	tnnnnnnn	nnnnnnnn	cnnnnnnnn	tnnnnnnn	nnnnnnnn	900
nnccnctnc	ctnnnnnn	nnnnnnnn	tnnnnnnn	tnnnnnnn	tnnnnnnn	950

```
<210> 7
<211> 1086
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1086)
<223> n = A,T,C or G
```

tctagagctc	gcgccgcga	gctcaattaa	ccctcactaa	agggagtcga	ctcgatcaga	60
ctgttactgt	gtctatgtag	aaagaagtag	acataagaga	tctcattttg	ttctgtacta	120
agaaaaattc	ttctgccttg	agatgctgtt	aatctgtaac	cctagcccca	accctgtgct	180
cacagagaca	tgtgctgtgt	tgactcaagg	ttcaatggat	ttagggctat	gctttgttaa	240
aaaagtgcct	gaagataata	tgcttgttaa	aagtcatcac	cattctctaa	tctcaagtac	300
ccagggacac	aatacactgc	ggaaggccgc	agggacctct	gtctaggaaa	gccagggtatt	360
gtccaagatt	tctcccatg	tgatagcctg	agatatggcc	tcatgggaag	ggtaagacct	420
gactgtcccc	cagcccgaca	tccccagcc	cgacatcccc	cagcccgaca	ccgaaaagg	480
gtctgtgctg	aggaagatta	ntaaaagagg	aaggctcttt	gcattgaagt	aagaagaagg	540
ctctgtctcc	tgctcgctcc	tgggcaataa	aatgtcttgg	tgttaaacct	gaatgtatgt	600
tctacttact	gagaatagga	gaaaacatcc	ttagggctgg	aggtagagaca	ccctggcggc	660
atactgtctc	ttaatgcacg	agatgtttgt	ntaattgcc	tccagggcc	cccccttcc	720
ttaacttttt	atganacaaa	aactttgttc	nttttctctg	cgaacctctc	ccctatttan	780
cctattggcc	tgcccatccc	ctccccaaan	ggtgaaaana	tgttcntaaa	tncgagggaa	840
tccaaaacnt	tttcccgttg	gtcccccttc	caaccccgtc	cctgggcenn	tttctcccc	900
aacntgtccc	ggntccttcn	ttcccncccc	cttcccnngn	aaaaaacccc	gtntganggn	960

```
<210> 8
<211> 1177
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1177)
<223> n = A,T,C or G
```

<400> 8						
nccnttttaga	tgttgacaan	ntaaacaagc	ngctcaggca	gctgaaaaaa	gccactgata	60
aagcatcctg	gagtatcaga	gtttactggt	agatcagcct	catttgactt	cccctcccac	120
atggtgttta	aatccagcta	cactacttcc	tgactcaaac	tccactattc	ctgttcatga	180
ctgtcaggaa	ctgttgga	ctactgaaac	tggccgacct	gatcttcaa	atgtgcccc	240
aggaaaggtg	gatgccaccg	tgttcacaga	cagtaccncc	ttcctcgaga	agggactacg	300
aggggcccgt	gcantgttta	ccaaggagac	tnatgtgttg	tgggctcagg	ctttaccanc	360
aaacacctca	nncnnaagg	ctgaattgat	cgcctcact	caggctctcg	gatggggtaa	420
gggatattaa	cgttaacact	gacagcaggt	acgccttgc	tactgtgcat	gtacgtggag	480
ccatctacca	ggagcgtggg	ctactcactc	ggcaggtggc	tgtnatccac	tgtaaangga	540
catcaaaagg	aaaacnnggc	tgttgcccgt	ggtaaccana	aanctgaten	ncagctcnaa	600
gatgctgtgt	tgactttcac	tncncctct	taaaacttgc	gccacantc	tcctttccca	660
accgatctg	cctgacaatc	cccatactca	aaaaaaaaan	aanactggcc	ccgaaccna	720
accaataaaa	acgggggagg	tnnggtnganc	nnctgaccc	aaaaataatg	gatccccgg	780
gctgcaggaa	ttcaattcan	ccttatcnat	adccccaa	ngngngggg	ggcngtncc	840
cattncctct	ntattnatc	tttncccc	ccccgggent	cctttttnaa	ctcgtgaaag	900
ggaaaacctg	ncttaccan	ttatcnctg	gacntcccc	ttcncggtg	gnttanaaaa	960
aaaagccnc	antccntcc	naaatttgca	cngaaggna	aggaatttaa	cctttatttt	1020
ttnttccttt	antttgtnnn	ccccctttta	cccagcgaa	cngccatcnt	ttaanaaaaa	1080
aanagaang	tttatttttc	cttngaacca	tcccaatana	aancacccgc	nggggaacgg	1140
gngggnaggc	cntcacccc	ctttntgtng	gngggnc			1177

```
<210> 9
<211> 1146
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1146)
<223> n = A,T,C or G
```

<400>	9						
ncnnttnt	gatgtgtct	ttttggcctc	tctttggata	ctttcctctc	cttcagaggt		60
gaaaagggtc	aaaaggagct	gttgacagtc	atcccaggtg	ggccaatgtg	tccagagtac		120
agactccatc	agtgaggtca	aagcctgggg	cttttcagag	aagggaggat	tatgggtttt		180
ccaattatac	aagtcagaag	tagaaagaag	ggacataaac	caggaagggg	gtggagcact		240

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	16
Income	35000	15000	10000	70000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Depression	0.1	0.3	0	1
Loneliness	0.3	0.5	0	1
Life Satisfaction	0.7	0.4	0	1
Quality of Life	0.8	0.3	0	1
Overall Health	0.9	0.2	0	1

<400> 10

<400> 11

<220>

<221> misc_feature
 <222> (1)...(388)
 <223> n = A,T,C or G

<400> 12

tctcctaggc ttgggggctc tgactagaaa ttcaaggaac ctggggattca agtccaaactg 60
 tgacaccaac ttacactgtg gntccaata aactgcttct ttectattcc ctctctatta 120
 aataaaataa ggaaaacgat gtctgtgtat agccaagtca gntatcctaa aaggagatac 180
 taagtgcacat taaatatcag aatgtaaaac ctgggaacca gggtcccagc ctggggattaa 240
 actgacagca agaagactga acagtactac tgtgaaaagc ccgaagnggc aatatgttca 300
 ctctaccgtt gaaggatggc tgggagaatg aatgctctgt cccccagtcc caagctcact 360
 tactatacct cttttatagc ctaggaga 388

<210> 13
 <211> 337
 <212> DNA
 <213> Homo sapien

<400> 13

tagtagttgc ctataatcat gtttctcatt attttcacat tttattaacc aatttctgtt 60
 taccctgaaa aatatgaggg aatatatga aacaggaggg caatgttcag ataattgatc 120
 acaagatatg atttctacat cagatgtctt ttcttttctt gtttatttcc tttttatttc 180
 ggttggtggg tcaaatgtaa tagctttgtt tcaagagaga gttttggcag tttctgtagc 240
 ttctgacact gtcctgtctt ccaggcatct atttgcactt taggaggtgt cgtgggagac 300
 tgagaggtct attttttcca tatttgggca actacta 337

<210> 14
 <211> 571
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(571)
 <223> n = A,T,C or G

<400> 14

tagtagttgc catacagtgc ctttccattt atttaacccc cacctgaacg gcataaaactg 60
 agtgttcagc tgggtgtttt tactgtaaac aataaggaga ctttgctctt catttaaacc 120
 aaaatcatat ttcatatttt acgctcgagg gttttttaccg gttccttttt acactcctta 180
 aaacagtttt taagtgtttt ggaacaagat attttttctt tcttggcagc ttttaacatt 240
 atagcaaatt tgtgtctggg ggactgctgg tcaactgtttc tcacagttgc aaatcaaggc 300
 atttgcaacc aagaaaaaaa aatttttttg ttttatttga aactggaccg gataaacggt 360
 gtttgagcgc gctgctgtat atagttttta atggtttatt gcactcctt aagttgcact 420
 tatgtggggg ggggnttttg natagaaagt ntttantcac anagtcacag ggactttnt 480
 cttttggnna ctgagctaaa aagggtgnt tttcgggtgg gggcagatga aggctcacag 540
 gaggcctttc tcttagaggg gggaactnct a 571

<210> 15
 <211> 548
 <212> DNA

SubA1

000000 = 5' to 3'

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

<223> n = A, T, C or G

tatatattta	ataacttaaa	tatatatttga	tcaccactg	gggtgataag	acaatagata	60
taaaagtatt	tccaaaagc	ataaaaacca	agtatcatac	caaaccaa	tcatactgct	120
tccccaccc	gcactgaac	ttcaccttct	aactgtctac	ctaaccaa	tctacccttc	180
aagtcttttg	tgcgtgctca	ctactctttt	ttttttttt	ttnttttgg	agatggagtc	240
tggctgtgca	gccaggggt	ggagtacaat	ggcacaaact	cagctcactg	naacctccgc	300
ctcccaggtt	catgagattc	tctgnttca	gccttcccag	tagctgggac	tacaggtgtg	360
catcaccatg	cctggntaat	cttttttngt	tttngggtag	agatgggggt	tttacaatgtt	420
ggccaggntg	gtntcgaact	cctgacctca	agtgatccac	ccacctcagg	ctcccaaagt	480
gctaggatta	cagacatgag	ccactgngcc	cagnctgggt	gcattgctcac	ttctctaggc	540
aactacta						548

<213> Homo sapien

<223> n = A, T, C or G

ttcggttatg	cacatgcaga	atattctatc	ggtacttcag	ctattactca	ttttgatggc	60
gcaatccgag	cctatcctca	agatgagtat	ttagaaagaa	tgattttagc	gatagaccaa	120
gctggttaagc	actctgacta	cacgaaattg	ttcagatgtg	atggatttat	gacagttgat	180
ctttggaaga	gattattaag	tgattatttt	aaaggaatc	cattaattcc	agaatatctt	240
ggtttagctc	aagatgatat	agaaatagaa	cagaaagaga	ctacaaatga	agatgtatca	300
ccaactgata	ttgaagagcc	tatagtagaa	aatgaattag	ctgcatttat	tagccttaca	360
catagcgatt	ttcctgatga	atcttatatt	cagccatoga	catagcatta	cctgatgggc	420
aaccttacga	ataatagaaa	ctgggtgcgg	ggctattgat	gaattcatcc	ncagtaaatt	480
tggaatnac	aaaatataac	tcgattgcat	ttggatgatg	gaatactaaa	tctggcaaaa	540
gtaactttgg	agctactagt	aacctctctt	tttgagatgc	aaaattttct	tttagggttt	600
cttattctct	actttacgga	tattggagca	taacggga			638

<213> Homo sapien

actgatggat gtcgcggag gcgaggggcc ttatctgat ctcggtgcc tgttcgtgat 60
gtgcgcggcg attgggctgt ttatctcaaa caccgccacg gcggtgctga tggcgccctat 120
tgccttagcg gcggcgaagt caatgggcgt ctcaccctat ccttttgca tgggtgggtggc 180


```
<210> 18
<211> 262
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G
```

```
<210> 19
<211> 261
<212> DNA
<213> Homo sapien
```

```
<210> 20
<211> 294
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1) ... (294)  
<223> n = A,T,C or G
```

```
<210> 21
<211> 208
```

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(208)
 <223> n = A,T,C or G

<400> 21
 ttggtaaagg gcatggacgc agacgcctga cgtttggctg aaaatcttcc attgattcgt 60
 atcaatgaat aggaaaattc ccaaagaggg aatgtcctgt tgctcgccag tttttntgtt 120
 gttctcatgg anaaggtaan gagctcttca gactattggn attntcgttc ggtcttctgc 180
 caactagtcg ncttgcnang atcttcat 208

<210> 22
 <211> 287
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 22
 nccnttgagc tgagtgattg agatntgtaa tggttgtaag ggtgattcag gcggattagg 60
 gtggcgggtc acccggcagt ggggtctccc acaggccagc aggatttggg gcaggtacgg 120
 ngtgcgcac gctcgactat atgctatggc aggcgagccg tggaaggngg atcaggtcac 180
 ggcgtggag ctttccacgg tccatgnatt gngatggctg ttctaggcgg ctggtgccaa 240
 gcgtgatggt acgctggctg gagcattgat ttctggtgcc aaggtgg 287

<210> 23
 <211> 204
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> n = A,T,C or G

<400> 23
 ttgggtaaag ggagcaagga gaaggcatgg agaggctcan gctggtcctg gcctacgact 60
 gggccaagct gtcgccgggg atggtggaga actgaagcgg gacctcctcg aggtcctccg 120
 ncgttacttc nccgtccagg aggagggctt ttccgtgggtc tnggaggagc ggggggagaa 180
 gatnctctc atggtcnaca tccc 204

<210> 24
 <211> 264
 <212> DNA
 <213> Homo sapien

SubA1

00220-226930

<400> 24

<210> 25

<211> 376

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

<222> (1) ... (376)

<223> n = A, T, C or G

<400> 25

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tgtgggtggtg	60
tgcacccgca	atcccagcta	cttgggaggt	tgagacacaa	gantcaccta	natgtggggag	120
gtcaagggtt	catgagtcac	yattgtgcc	ctgcactcca	gcctgggtga	cagaccgaga	180
cctgcctca	anaganaang	aataggaagt	tcagaaatcn	tggntgtggn	gccagcaat	240
ctgcatctat	ncaaccctg	caggcaangc	tgatgcagcc	tangttcaag	agctgctgtt	300
tctggaggca	gcagttnggg	cttccatcca	gtatcacggc	cacactcgca	cnagccatct	360
gtcctccgtn	tgtnac					376

<210> 26

<211> 372

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (372)$

<223> n = A, T, C or G

<400> 26

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tggtggtggtg	60
tgcaacctgta	atcccagcta	cttggggcggc	tgagacacaa	gaaccaccta	aatgtggggag	120
ggtcaagggt	gcatgagtca	tgatcgcgcc	actgcactcc	agcctgggtg	acagactgag	180
accctgcctc	aaaagaaaaa	gaataggaag	ttcagaaaacc	ctgggtgtgg	ngcccagcaa	240
tctgcattta	aacaatccct	gcaggcaatg	ctgatgcagc	ctaagttcaa	gagctgctgt	300
tctggaggca	gnagtaaggg	cttccatcca	gcatcacggn	caacactgca	aaagcacctg	360
tcctcgttgg	ta					372

<210> 27
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 27
 ttctgtccac atttacaagt tttattttatt ttgtgggttt tcagggtgac taagtttttc 60
 cctacattga aaagagaagt tgctaaaagg tgcacaggaa atcatttttt taagtgaata 120
 tgataatatg ggctcgtgct taatacaact gagacatatt tgttctctgt ttttttagag 180
 tcacctctta aagtcacaat ccacaatggg gaaaaaaaaa tagaaagtat ttgttctacc 240
 ttttaaggaga ctgcagggat tctccttgaa aacggagtat ggaatcaatc ttaaataaat 300
 atgaaattgg ttggtcttct gggataagaa attcccaact cagtgtgctg aaattcacct 360
 gacttttttt gggaaaaaat agtcgaaaat gtcaatttgg tccataaaat acatgttact 420
 attaaaagat atttaaagac aaattctttc agagctctaa gattgggtgtg gacagaa 477

<210> 28
 <211> 438
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(438)
 <223> n = A,T,C or G

<400> 28
 tctncaacct cttgantgtc aaaaaccttn taggctatct ctaaaagctg actggtattc 60
 attccagcaa aatccctcta gtttttggag ttccctttta ctatctgggg ctgcctgagc 120
 cacaaatgcc aaattaagag catggctatt ttccgggggct gacagggtcaa aaggggtgta 180
 aatccgataa gcctcctgga ggtgctctaa aaacactcct ggtgactcat catgcccctg 240
 gacgacttca atcgnettag acaagtttat aggtttctgg gcagctccct gaatacccac 300
 gaggagatac cgggtggaaat cgtcaaaaagt tctccctcca cttgagaaat ttgggtccca 360
 attaggtccc aattgggtct ctaatcacta ttcctctage ttcctcctcc ggnetattgg 420
 ttgatgtgag gttgaaga 438

<210> 29
 <211> 620
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(620)
 <223> n = A,T,C or G

<400> 29
 aagagggtac cagccccaag cttgacaac ttccataggg tgtcaagcct gtgggtgcac 60
 agaagtcaaa aattgagttt tgggatactc agcctagatt tcagaggata taaagaaaca 120
 cctaacacct agatattcag acaaaaagtt actacaggga tgaagctttc acggaaaacc 180
 tctactagga aagtacagaa gagaaatgtg ggtttggagc ccccaaacag aatccctct 240
 agaacactgc ctaatgaaac tgtgagaaga tggccactgt catccagaca ccagaatgat 300

Gene: gcttctg

Sub-A1

SW-A1

```

agaccaccca aaaacttatg ccatattgcc tataaaacct acagacactc aatgccagcc 360
ccatgaaaaa aaaactgaga agaagactgt nccctacaat gccaccggag cagaactgcc 420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc 480
nangaaatcn ttttaanact tccacggtnn aatgactgcc ctattanatt cngaacttan 540
atccnggcct gtgacctctt tgccttggcc attccccctt tttggaatgg ctnttttttt 600
cccatgcctg tncctcttta                                     620

```

<210> 30
 <211> 100
 <212> DNA
 <213> Homo sapien

```

<400> 30
ttacaacgag ggggtcaatg tcataaatgt cacaataaaa caatctcttc tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt 100

```

<210> 31
 <211> 762
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (762)
 <223> n = A,T,C or G

```

<400> 31
tagtctatgc gccggacaga gcagaattaa attggaagt gccctccgga ctttctaccc 60
acactcttcc tgaaaagaga aagaaaagag gcaggaaaga ggtaggatt tcattttcaa 120
gagtcagcta attaggagag cagagttag acagcagtag gcaccccatg atacaaacca 180
tggaacaaat cctgttttag taactgccag acatgatcct gctcagggtt tgaaatctct 240
ctgcccataa aagatggaga gcaggagtgc catccacatc aacacgtgtc caagaaagag 300
tctcagggag acaaggggat caaaaaacaa gattcttaat gggaaggaaa tcaaaccaaa 360
aaattagatt tttctctaca tatatataat atacagatat ttaacacatt attccagagg 420
tggtccagct ccttggggct tgagagatgg tgaaaacttt tgttccacat taacttctgc 480
tctcaaattc tgaagtatat cagaatggga caggcaatgt ttgtctccac actggggcac 540
agaccacaaat ggttctgtgc ccgaagaaga gaagcccgaa agacatgaag gatgcttaag 600
gggggttggg aaagccaaat tgggtantatc ttttctctct gctgtgttc cngaagtctc 660
cnctgaagga attcttaaaa ccctttgtga ggaaatgccc ccttaccatg acaantggtc 720
ccattgcttt tagggngatg gaaacaccaa gggttttgat cc 762

```

<210> 32
 <211> 276
 <212> DNA
 <213> Homo sapien

```

<400> 32
tagtctatgc gtgtattaac ctccccctcc tcagtaacaa ccaaagaggc aggagctgtt 60
attaccaacc ccattttaca gatgcatcaa taatgacaga gaagtgaagt gacttgcgca 120
cacaaccagt aaattggcag agtcagatgt gaatccatgg agtctgggtc gcactttcaa 180
tcaccgaata ccctttctaa gaaacgtgtg ctgaatgagt gcatggataa atcagtgtct 240

```

1179	1180	1181	1182	1183
1184	1185	1186	1187	1188
1189	1190	1191	1192	1193
1194	1195	1196	1197	1198
1199	1200	1201	1202	1203
1204	1205	1206	1207	1208
1209	1210	1211	1212	1213
1214	1215	1216	1217	1218
1219	1220	1221	1222	1223
1224	1225	1226	1227	1228
1229	1230	1231	1232	1233
1234	1235	1236	1237	1238
1239	1240	1241	1242	1243
1244	1245	1246	1247	1248
1249	1250	1251	1252	1253
1254	1255	1256	1257	1258
1259	1260	1261	1262	1263
1264	1265	1266	1267	1268
1269	1270	1271	1272	1273
1274	1275	1276	1277	1278
1279	1280	1281	1282	1283
1284	1285	1286	1287	1288
1289	1290	1291	1292	1293
1294	1295	1296	1297	1298
1299	1300	1301	1302	1303
1304	1305	1306	1307	1308
1309	1310	1311	1312	1313
1314	1315	1316	1317	1318
1319	1320	1321	1322	1323
1324	1325	1326	1327	1328
1329	1330	1331	1332	1333
1334	1335	1336	1337	1338
1339	1340	1341	1342	1343
1344	1345	1346	1347	1348
1349	1350	1351	1352	1353
1354	1355	1356	1357	1358
1359	1360	1361	1362	1363
1364	1365	1366	1367	1368
1369	1370	1371	1372	1373
1374	1375	1376	1377	1378
1379	1380	1381	1382	1383
1384	1385	1386	1387	1388
1389	1390	1391	1392	1393
1394	1395	1396	1397	1398
1399	1400	1401	1402	1403
1404	1405	1406	1407	1408
1409	1410	1411	1412	1413
1414	1415	1416	1417	1418
1419	1420	1421	1422	1423
1424	1425	1426	1427	1428
1429	1430	1431	1432	1433
1434	1435	1436	1437	1438
1439	1440	1441	1442	1443
1444	1445	1446	1447	1448
1449	1450	1451	1452	1453
1454	1455	1456	1457	1458
1459	1460	1461	1462	1463
1464	1465	1466	1467	1468
1469	1470	1471	1472	1473
1474	1475	1476	1477	1478
1479	1480	1481	1482	1483
1484	1485	1486	1487	1488
1489	1490	1491	1492	1493
1494	1495	1496	1497	1498
1499	1500	1501	1502	1503
1504	1505	1506	1507	1508
1509	1510	1511	1512	1513
1514	1515	1516	1517	1518
1519	1520	1521	1522	1523
1524	1525	1526	1527	1528
1529	1530	1531	1532	1533
1534	1535	1536	1537	1538
1539	1540	1541	1542	1543
1544	1545	1546	1547	1548
1549	1550	1551	1552	1553
1554	1555	1556	1557	1558
1559	1560	1561	1562	1563
1564	1565	1566	1567	1568
1569	1570	1571	1572	1573
1574	1575	1576	1577	1578
1579	1580	1581	1582	1583
1584	1585	1586	1587	

```
<210> 33
<211> 477
<212> DNA
<213> Homo sapien
```

<400>	33						
tagtagttgc	caaataattttg	aaaattttacc	cagaagtgat	tgaaaacttt	ttggaaacaa		60
aaacaaataa	agccaaaagg	taaaataaaa	atatctttgc	actctcgtta	ttacctatcc		120
ataacttttt	caccgtaagc	tctcctgctt	gtagttag	tgtgggtata	ttaaactttt		180
tagttattat	tttttattca	cttttccact	agaaagtc	tattgattta	gcacacatgt		240
tgatctcatt	tcattttttc	tttttatagg	caaaatttga	tgctatgcaa	caaaaatact		300
caagcccatt	atcttttttc	ccccgaaat	ctgaaaattg	caggggacag	agggaagtta		360
tcccattaaa	aaattgtaaa	taagttcagt	ttatgtttta	aaatgcacaa	aacataagaa		420
aattgtgttt	acttgagctg	ctgaattgtaa	gcagttttat	ctcaggggca	actacta		477

```
<210> 34
<211> 631
<212> DNA
<213> Homo sapien
```

<400> 34							
tagtagttgc	caattcagat	gatcagaaat	gctgctttcc	tcagcattgt	cttggttaa	aac	60
cgcattgccat	ttggaacttt	ggcagtgaga	agccaaaagg	aagagggtgaa	tgacatatat		120
atatatatat	attcaatgaa	agtaaaatgt	atatgctcat	atactttcta	gttatcagaa		180
tgagttaagc	tttatgccat	tgggctgctg	catattttta	tcagaagata	aaagaaaatc		240
tgggcatttt	tagaatgtga	tacatgtttt	tttaaaactg	ttaaatatta	tttcgatatt		300
tgtctaagaa	cgggaatgtt	cttaaaaattt	actaaaacag	tattgtttga	ggaagagaaa		360
actgtactgt	ttgccattat	tacagtctga	caagtgcacg	tcaagtcacc	cactctctca		420
ggcactcagta	tccacctcat	agcttttacac	atthtgacgg	ggaatattgc	agcatcctca		480
ggcctgacat	ctgggaaagg	ctcagatcca	cctactgtctc	cttgctcggt	gatttgtttt		540
aaaatattgt	gcctgggtgtc	acttttaagc	cacagccctg	cctaaaagcc	agcagagaac		600
agaacccgca	ccattctata	ggcaactact	a				631

```
<210> 35
<211> 578
<212> DNA
<213> Homo sapien
```

<400> 35						
tagtagttgc	catcccatat	tacagaaggc	tctgtataca	tgacttattt	ggaagtgate	60
tgttttctct	ccaaacccat	ttatcgtaat	ttcaccagtc	ttggatcaat	cttgggttcc	120
actgatacca	tgaaacctac	ttggagcaga	cattgcacag	tttctgtgg	taaaaactaa	180
aggtttattt	gctaagctgt	catcttatgc	ttagtatttt	ttttttacag	tggggaattg	240
ctgagattac	attttgttat	tcattagata	ctttgggata	acttgacact	gtcttctttt	300
tttcgctttt	aattgctatc	atcatgcttt	tgaacaaga	acacattagt	cctcaagtat	360
tacataagct	tgctgtttac	gcctggtggt	ttaaaggact	atctttggcc	tcaggttcac	420
aagaatgggc	aaagtgtttc	cttatgtttc	gtagttctca	ataaaaagatt	gccaggggcc	480
gggtactgtg	gcctgcactg	taatcccagc	actttgggaa	gctgaggctg	gcggatcatg	540
ttagggcagg	tgttcgaaac	cagcctgggc	aactacta			578

The diagram illustrates a quantum circuit for a 2-qubit system. It begins with two qubits, labeled q_1 and q_2 , both initialized to the $|0\rangle$ state. Qubit q_1 is first processed by a Hadamard gate (H). Both qubits then enter a CNOT gate, where q_1 acts as the control and q_2 as the target. Following the CNOT operation, qubit q_2 passes through another Hadamard gate (H). The circuit concludes with a measurement operation on the final state, which produces a classical bit output.

```
<210> 37
<211> 716
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G
```

```
<210> 38
<211> 688
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(688)
<223> n = A,T,C or G
```

~~<400>~~ 38

tctgtccac	atatcatccc	actttaattg	ttaatcagca	aaactttcaa	tgaaaaatca	60
tccattttaa	ccaggatcac	accaggaaac	tgaagggtga	ttttttttta	ccttaaaaaa	120
aaaaaaaaaa	accaaacaaa	ccaaaacaga	ttaacagcaa	agagttctaa	aaaattttaca	180
tttctcttac	aadtgtcatt	cagagaacaa	tagttcttaa	gtctgttaaa	tcttggcatt	240
aacagagaaa	cttgatgaan	agttgtactt	ggaatattgt	ggattttttt	ttttgtctaa	300
tctcccccta	ttgttttgcc	aacagtaatt	taagtttggt	tggaacatcc	ccgtagttga	360
agtgtaaaaca	atgtatagga	aggaatatat	gataagatga	tgcatcacat	atgcattaca	420
tgtagggacc	ttcacaaact	catgcactca	gaaaacatgc	ttgaagagga	ggagaggacg	480
gccagggtc	accatccagg	tgcttggagg	acagagaatg	cagaagtggc	actgttgaaa	540
tttagaagac	catgtgtgaa	tggtttcagg	cctgggatgt	ttgccaccaa	gaagtgcctc	600
cgagaaattt	ctttcccat	tggaatacag	ggtggcttga	tgggtacggt	gggtgacca	660
acgaagaaaa	tgaaattctg	ccctttcc				688

<210> 39

<211> 585

<212> DNA

<213> Homo sapien

<220>

```
<221> misc_feature
```

$\langle 222 \rangle$ (1) ... (585)

<223> n = A, T, C or G

<400> 39

tagtagttgc	cgcnnacctt	aaanttgga	agcatgatgt	ctaggaaaca	tantaaaata	60
gggtatgcct	atgtgctaca	gagagatgtt	agcatttaaa	gtgcatantt	ttatgtattt	120
tgacaaatgc	atatnccctc	ataatccaca	actgattacg	aagctattac	aattaaanaag	180
tttggccggg	cgtggtgggc	ggtggctgac	gctgtaatc	ccagcacttt	gggaggccga	240
ggcacgcgga	tcacgaggtc	gggagttcaa	gaccatcctg	gctaacacgg	tgaaagtcca	300
tctctactaa	aaatacgaaa	aaattacccc	ggcgtggtgg	cgggcgcctg	tagtcccagc	360
tactccggag	gctgaggcag	gagaatggcg	tgaacccagg	acacggagct	tgcagtgtgc	420
caacatcacg	tcactgccct	ccagcctggg	ggacaggaac	aagantcccg	tcctcanaaa	480
agaaaaatac	tactnatant	ttcnacttta	tttcaantta	cacagaactn	cctcttggtg	540
cccccttacc	attcatctca	cccacctcct	atagggcacn	nctaa		585

<210> 40

<211> 475

<212> DNA

<213> Homo sapien

<400> 40

tctgtccaca	ccaatcttag	aagctctgaa	aagaatttgt	ctttaaatat	cttttaatat	60
taacatgtat	tttatggacc	aaattgacat	tttcgactgt	tttttccaaa	aaagtcaggt	120
gaatttcagc	acactgagtt	gggaatttct	tatcccagaa	gaccaaccaa	tttcatattt	180
attttaagatt	gattccatac	tccgttttca	aggagaatcc	ctgcagtctc	cttaaaggta	240
gaacaaatac	ttcctatttt	tttttcacca	ttgtgggatt	ggactttaag	aggtgactct	300
aaaaaaacag	agaacaaata	tgtctcagtt	gtattaagca	cgacccata	ttatcatatt	360
cacttaaaaa	aatgatttcc	tgtgcacctt	ttggcaactt	ctcttttcaa	tgtagggaaa	420
aacttagtca	ccctgaaaac	ccacaaaata	aataaaaactt	gtagatgtgg	acaga	475

<400> 41

<210> 42

<211> 527

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (527)$

<223> n = A, T, C or G

<400> 42

tctcctaggc	taatgtgtgt	gtttctgtaa	aagtaaaaag	ttaaaaaattt	taaaaataga	60
aaaaagctta	tagaataaga	atatgaagaa	agaaaatatt	tttgtaacatt	tgcacaatga	120
gtttatgttt	taagctaagt	gttattacaa	aagagccaaa	aagggttttaa	aaattaaaac	180
gtttgtaaag	ttacagtacc	cttatgttaa	tttataattg	aagaaagaaa	aactttttttt	240
tataaatgta	gtgtagccta	agcatcacagt	atttataaag	tctggcagtg	ttcaataatg	300
tcctaggcct	tcacattcac	tcactgactc	accagagcca	acttccagtc	ctgtaagctc	360
cattcgtggt	aagtgccta	tacaggtgca	ccattttattt	tacagtattt	ttactgtacc	420
ttctctatgt	ttccatatgt	ttcgatatac	aaataccact	ggttactatn	gcccnacagg	480
taattccagt	aacacggcct	gtatacgtct	ggtancccta	gngaaga		527

<210> 43

<211> 331

<212> DNA

<213> Homo sapien

<400> 43

tcttcaacct	cttaggacaa	ctctcatatg	cctgggcact	attttttaggt	tactaccttg	60
gctgcccttc	ttaagaaaa	aaaaaagaag	aaaaaagaac	ttttccaaa	gtttctcttc	120
ctctagtgtg	aaaattagag	aaatcatggt	tttaattttg	tgttatttca	gatcacaat	180
tcaaacactt	gtaaacatta	agcttctgtt	caatcccttg	ggaagaggat	tcattctgat	240
atttacggtt	caaaagaagt	tgtaatatgg	tgcttggaac	acagagaacc	agttattaac	300
ttcctactac	tattatataa	taataataaa	c			331

<210> 44

Sub A1

[illegible]

```
<210> 45
<211> 567
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G
```

ggcttagtag	ttgccattgc	gagtgccttc	tcaacgagcg	ttgaacatgg	cggattgtct	60
gatttcaacg	gatttgagtt	ttaccagcaa	agcgaaccaa	gcgcggccca	gagaattatg	120
ggttggttgg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	ccttcttgca	180
gaacagttgg	ttctcgggcg	aacgctcatc	aagatgccca	ttggaaaggc	tagcgtgtat	240
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttggacagt	gacaaaagat	300
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactcctac	360
ttatactgtg	aggaatgata	gccaaagggtg	gggactttta	gactaagggtg	gtttgtactt	420
gcgccgatga	tcccaggcag	aaagamctga	tcgctagttt	tatacgggca	actactaagc	480
cgaattccag	cacactggcg	gcggttacta	attggtatccg	anctcggtac	cagcttgatg	540
cataccttga	qttwtctata	ntgtcnc				567

```
<210> 46
<211> 908
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(908)
```

<223> n = A, T, C or G

<400> 46

gagcgaaaga	ccgagggcag	ngmntangng	cgangaagcg	gagagggcca	aaaagcaacc	60
gctttccccc	gggggtgpcg	attcattaag	gcaggtggag	gacaggtttc	ccgatggaag	120
gcggcagggg	cgcaagcaat	taatgtgagt	aggccattca	ttagcaccgg	ggcttaacat	180
ttaagcttcg	ggttggtatg	tggtgggaat	tgtgagcgga	taacaatttc	acacaggaaa	240
cagctatgac	catgattacg	ccaagctatt	taggtgacat	tatagaataa	ctcaagttat	300
gcatcaagct	tggtaccgag	ttcggatcca	ctagtaacgg	ccgccagtgt	gtggaattcg	360
gcttagtagt	tgccgaccat	ggagtgctac	ctaggctaga	atacctgagy	tcctccctag	420
cctcactcac	attaaattgt	atcttttcta	cattagatgt	cctcagcgcc	ttattttctgc	480
tggacwatcg	ataaattaat	cctgatagga	tgatagcagc	agattaatta	ctgagagtat	540
gttaatgtgt	catccctcct	atataacgta	tttgcatitt	aatggagcaa	ttctggagat	600
aatccctgaa	ggcaaaggaa	tgaatcttga	gggtgagaaa	gccagaatca	gtgtccagct	660
gcagtttgtg	gagaaggtga	tattatgtat	gtctcagaag	tgacaccata	tgggcaacta	720
ctaagcccga	attccagcac	actggcgggc	gttactaatg	gatccgagct	cggtaccaag	780
cttgatgcat	agcttgagta	tctatagtgt	cactaaatag	cctggcggtta	tcatggtcat	840
agctgtttcc	tgtgtgaaat	tgttatccgc	tcccaattcc	ccccaccata	cgagccggaa	900
cataaagt						908

<210> 47

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (480)$

<223> n = A, T, C or G

<400> 47

tgccaacaag	gaaagtttta	aatttcccct	tgaggattct	tggtgatcat	caaattcagt	60
ggtttttaag	gttgttttct	gtcaataaac	tctaacttta	agccaaacag	tatatggaag	120
cacagataka	atattacaca	gataaaaagag	gagttgatct	aaagtaraga	tagttggggg	180
ctttaatttc	tggaacctag	gtctcccat	cttcttctgt	gctgaggaac	ttcttggaag	240
cggggattct	aaagtctctt	ggaagacagt	ttgaaaacca	ccatgttggt	ctcagtacct	300
ttatttttaa	aaagtaggtg	aacattttga	gagagaaaag	ggcttggttg	agatgaagtc	360
ccccccccc	ctttttttt	tttagctga	aatagatacc	ctatgttnaa	rgaarggatt	420
attatttacc	atgccaytar	scacatgctc	tttgatgggc	nytccestac	cctccttaag	480

<210> 48

<211> 591

<212> DNA

<213> Homo sapien

<400> 48

aagagggtac	cgagtggaat	ttccgcttca	ctagtctggt	gtggctagtc	ggtttcgtgg	60
tggccaacat	tacgaacttc	caactcaacc	gttcttggac	gttcaagcgg	gagtaccggc	120
gaggatggtg	gcgtgaattc	tggcctttct	ttgccgtggg	atcggtagcc	gccatcctcg	180
gtatgtttat	caagatcttc	tttactaacc	cgacctctcc	gatttacctg	cccgagccgt	240
ggtttaacga	ggggaggggg	atccagtcac	gcgagtaactg	gtccpagatc	ttcgccctcg	300

Sub A1

[illegible]

```
<210> 49
<211> 454
<212> DNA
<213> Homo sapien
```

```
<210> 50
<211> 463
<212> DNA
<213> Homo sapien
```

```
<210> 51
<211> 399
<212> DNA
<213> Homo sapien
```

<210> 52

<400> 52

```
<210> 53
<211> 179
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (179)
<223> n = A,T,C or G
```

<400> 53

ttcgggtgat	gcctcctcag	gctacagtga	agactggatt	acagaaaagg	gccagcgaga	60
tttcagattc	ctgtaaacct	ctaaagaaaa	ggagtcgcgc	ctcaactgat	gtagaaatga	120
ctagttcagc	atacngagac	acntctgact	ccgattctag	aggactgagt	gacctgcan	179

```
<210> 54
<211> 112
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(112)  
<223> n = A,T,C or G
```

<400> 54

ttcgggtgat gccctctcag gctacatcat natagaagca aagtagaana atcnnngtttg 60
tgcattttcc cacanacaaa attcaaata ntgggaagaaa ttggganagt at 112

```
<210> 55
<211> 225
<212> DNA
<213> Homo sapien
```

<400> 55

```

tgagcttcg cttctgacaa ctcaatagat aatcaaagga caactttaac agggattcac      60
aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca      120
gaagwatgca aattaaaac ataatgagaa accactatgt cccactagaa tagataaaat      180

```

```
<210> 56
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 57
<211> 223
<212> DNA
<213> Homo sapien
```

```
<210> 58
<211> 211
<212> DNA
<213> Homo sapien
```

```
<210> 59
<211> 208
<212> DNA
<213> Homo sapien
```

```
<210> 60
<211> 171
<212> DNA
<213> Homo sapien
```

[illegible]

agccatttac caccataact aaattctagt tcaaactcca acttcttcca taaaacatct 60
 aaccactgac accagttggc aatagcttct tcttcttcta acctcttaga gtatttatgg 120
 tcaatgccac acatttctgc aactgaataa agttggtaag gcaagaggag c 171

<210> 61
 <211> 134
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(134)
 <223> n = A,T,C or G

<400> 61
 cgggtgatgc ctctcaggc ttgggtgtgt ccaactnact cactggcctc ttctccagca 60
 actggtgaan atgtctcan gaaanncnc acacgcngct cagggtgggg tgggaancat 120
 canaatcatc nggc 134

<210> 62
 <211> 145
 <212> DNA
 <213> Homo sapien

<400> 62
 agagggtaca tatgcaacag tatataaagg aagaagtgca ctgagaggaa ctcatcaag 60
 gccatttaat caataagtga tagagtcaag gctcaacca ggtgtgacgg attccaggtc 120
 ccaagctcct tactggtacc ctctt 145

<210> 63
 <211> 297
 <212> DNA
 <213> Homo sapien

<400> 63
 tgcactgaga ggaattcaaa gggtttatgc caaagaacaa accagtcctc tgcagcctaa 60
 ctcatattgtt tttgggctgc gaagccatgt agaggcgcag caggcagtag atggtcctc 120
 ccacagtcag cgccatggtg gtccggtaaa gcatttggtc aggcaggcct cgtttcaggt 180
 agacgggcac acatcagctt tctggaaaaa cttttgtagc tctggagctt tgtttttccc 240
 agcataatca tacactgtgg aatcggaggt cagtttagtt ggtaaggcaa gaggagc 297

<210> 64
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 64
 gcactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcaccccttg 60
 cttgtgccgg ttttcaaagg gaatgcttcc agcttttgcc cattcagtat aatattaaag 120
 aatgttttac cattttctgt cttgectgtt tttctgtgtt tttgttggtc tcttcattct 180
 ccatttttag gcctttacat gtaggaata tatttctttt aatgatactt cacctttggt 240

SubA1

CCDC136

Variable	Mean	SD	Min	Max	Median	Mode	Skewness	Kurtosis	Shapiro-Wilk	Normality
Age	35.2	12.5	18	65	32	30	0.15	2.10	0.98	Normal
Gender	1.2	0.4	1	2	1	1	0.05	0.10	0.99	Normal
Marital Status	2.1	0.8	1	3	2	2	0.10	0.50	0.99	Normal
Education	12.5	2.1	9	16	12	12	0.10	0.50	0.99	Normal
Income	1500	500	500	3000	1200	1000	0.15	2.10	0.98	Normal
Occupation	1.5	0.5	1	3	1	1	0.05	0.10	0.99	Normal
Health Status	2.5	0.5	1	3	2	2	0.10	0.50	0.99	Normal
Stress Level	3.5	1.0	1	5	3	3	0.15	2.10	0.98	Normal
Life Satisfaction	4.0	0.8	1	5	4	4	0.10	0.50	0.99	Normal
Resilience	3.0	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Optimism	3.5	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Self-Esteem	3.0	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Emotional Stability	3.5	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Life Satisfaction	4.0	0.8	1	5	4	4	0.10	0.50	0.99	Normal
Resilience	3.0	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Optimism	3.5	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Self-Esteem	3.0	0.5	1	4	3	3	0.10	0.50	0.99	Normal
Emotional Stability	3.5	0.5	1	4	3	3	0.10	0.50	0.99	Normal

<400> 65

gctcctcttg	ccttaaccaac	tcacccagta	tgtcagcaat	tttatcrgct	ttacctacga	60
aacagcctgt	atccaaacac	ttaacacact	cacctgaaaa	gttcaggcaa	caatgcgctt	120
ctcatgggtc	tctctgctcc	agttctgaac	ctttctcttt	tcttagaaca	tgcatttarg	180
tcgatagaag	ttcctctcag	tgc				203

<400>	66						
tacgggggacc	cctgcattga	gaaagcgaga	ctcactctga	agctgaaatg	ctgttgccct		60
tgcaagtgtg	gtagcaggag	ttctgtgctt	tgtgggctaa	ggctcctgga	tgaccctga		120
catggagaag	gcagagttgt	gtgccccttc	tcatggcctc	gtcaaggcat	catggactgc		180
cacacacaaa	atgccgtttt	tattaacgac	atgaaattga	aggagagAAC	acaattcact		240
gatgtggctc	gtaaccatgg	atatggtcac	atacagaggt	gtgattatgt	aaaggTTaat		300
tccaccacc	tcatgtggaa	actagcctca	atgcaggggt	ccca			344

<400>	67						
gcactgagag	gaacttcgta	gggagggttga	actggctgct	gaggagggggg	aacaacaggg		60
taaccagact	gatagccatt	ggatggataa	tatgttggtt	gaggaggggac	actacttata		120
gcagaggggt	gtgtatagcc	tgaggaggca	tcacdcg				157

```

      <400> 68
gcaactgagag gaacttctag aaagtgaag tctagacata aaataaaata aaaattttaa      60
actcaggaga gacagccag cacggtggct cagcctgta atcccagaac tttgggagcc      120
tgaggaggca tcacccg                                     137

```

```
<210> 69
<211> 137
<212> DNA
<213> Homo sapien
```



```
<210> 70
<211> 220
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(220)  
<223> n = A,T,C or G
```

```
<210> 71
<211> 353
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (353)
<223> n = A,T,C or G
```

```
<210> 72
<211> 343
<212> DNA
<213> Homo sapien
```

<400>	72						
gcactgagag	gaacttccaa	tacyatkatc	agagtgaaca	rgcarccyac	agaacaggag		60
aaaatgttyg	caatctctcc	atctgacaaa	aggctaatat	ccagawtcta	awaggaactt		120
aaacaaattt	atgagaaaag	aacaracaac	ctcawcaaaa	agtgggtgaa	ggawatgcts		180
aaargaagac	atytattcag	ccagtaaaca	yatgaaaaaa	aggctcatsa	tcactgawca		240
ttagagaaat	gcaaatcaaa	accacaatga	gataccatct	yayrccagtt	agaayggtga		300
tcattaaaaa	stcaggaaac	aacagatgct	ggacaagggtg	tca			343

$\mathcal{H}^1(\mathbb{R}^n)$

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

tttttttttt	tttactcggc	tcagtcta	atcctttttgta	gtcactcata	ggccagactt	60
agggctagga	tgatgattaa	taagagggat	gacataacta	ttagtggcag	gttagttggt	120
tgtagggtct	atggtagggg	taaaaggagg	gcaatttcta	gatcaaataa	taagaaggta	180
atagctacta	agaagaattt	tatggagaaa	gggacgcggg	cgggggatat	agggtcgaag	240
ccgcactcgt	aaggggtgga	tttttctatg	tagccgttga	gttggtggtag	tcaaaatgta	300
ataattatta	gtagtaagcc	taggaga				327

[illegible]

<400>	82						
tcttcaacct	ctactccac	taatagcttt	ttgatgactt	ctagcaagcc	tcgctaacct		60
cgctttaccc	cccactatta	acctactggg	agaactctct	gtgctagtaa	ccacgttctc		120
ctgatcaaat	atcactctcc	tacttacagg	actcaacata	ctagtccacag	ccctatactc		180
cctctacata	tttaccacaa	cacaatgggg	ctcactcacc	caccacatta	acaacataaa		240
accctcattc	acacgagaaa	acacctcat	gttcatacac	ctatccccc	ttctcctcct		300
atccctcaac	ccgcacatca	ttaccgggtt	ttctcttt				338

```

<400> 83
agccatttac caccatcca caaaaaaaaa aaaaaaaaaa aaaaatatca aggaataaaa      60
atagactttg aacaaaaagg aacatttgct ggctgagga ggcacaccc g      111

```

```
<210> 84
<211> 224
<212> DNA
<213> Homo sapien
```

<220>
<223> Primer for amplification from breast tumor cDNA

Sub A1

<400> 88
agtagttgcc 10

<210> 89
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 89
ttccggttatg c 11

<210> 90
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 90
tggtaaagg 10

<210> 91
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 91
tcggtcatag 10

<210> 92
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 92
tacaacgagg 10

<210> 93
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 93
 tggattgggtc 10

<210> 94
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 94
 ctttctaccc 10

<210> 95
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 95
 ttttggtcc 10

<210> 96
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 96
 ggaaccaatc 10

<210> 97
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 97
 tcgatacagg 10

Sub A1

Sequence

[illegible]

<220>
<223> Primer for amplification from breast tumor cDNA

<210> 99
<211> 10
<212> DNA
<213> Artificial Sequence

```
<210> 100
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA
```

```
<210> 101
<211> 10
<212> DNA
<213> Artificial Sequence
```

<210> 102
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

[illegible]

212> DNA

[illegible]

20

20

20

20

20

Category	Sub-category	Frequency	Percentage	
Gender	Male	10	10.0%	
	Female	90	90.0%	
	Age	18-24	5	5.0%
		25-34	15	15.0%
		35-44	20	20.0%
		45-54	25	25.0%
		55-64	30	30.0%
		65-74	35	35.0%
		75-84	40	40.0%
		85-94	45	45.0%
95-104		50	50.0%	
105-114		55	55.0%	
Education	High School	10	10.0%	
	College	20	20.0%	
	Postgraduate	30	30.0%	
	Other	40	40.0%	
	Unemployed	50	50.0%	
	Retired	60	60.0%	
	Working	70	70.0%	
	Home	80	80.0%	
	Business	90	90.0%	
	Government	100	100.0%	

~~<220>~~
~~<223> Primer for amplification from breast tumor cDNA~~

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 113
cgggtgatgc ctctcaggc

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence
```

<400> 115
gacaccttgt ccagcatctg

<220>

SubA1

<223> Primer for amplification from breast tumor cDNA
 <400> 116
 tacgctgcaa cactgtggag 20
 <210> 117
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 117
 cgttagggtc tctatccaat 20
 <210> 118
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 118
 agactgactc atgtccccta 20
 <210> 119
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 119
 tcacgctcg gtgactcaag 20
 <210> 120
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 120
 caagattcca taggctgacc 20
 <210> 121
 <211> 20

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

 $\langle 400 \rangle \backslash 121$

acgtactggt cttgaaggct

20

$\langle 210 \rangle$ 122

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 122

gacgcttggc cacttgacad

20

<210> 123

<211> 20

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Primer for amplification from breast tumor cDNA

<400> 123

gtatcgacgt agtgggtctcc

20

<210> 124

<211> 20

<212> DNA.

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 124

tagtgacatt acgacgctgg

20

<210> 125

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 125

Sub A1

cggtgatgc ctcctcaggc 20

<210> 126
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 126
 atggctattt tcgggggctg aca 23

<210> 127
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 127
 ccggtatctc ctggtgggta tt 22

<210> 128
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 128
 ctgcctgagc cacaaatg 18

<210> 129
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 129
 ccggaggagg aagctagagg aata 24

<210> 130
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 130

tttttttttt ttag

14

<210> 131

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicited Th Motifs (B-cell epitopes)

<400> 131

Ser Ser Gly Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val
 1 5 10 15
 Gly Ile

<210> 132

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicited Th Motifs (B-cell epitopes)

<221> VARIANT

<222> (1)...(22)

<223> Xaa = Any Amino Acid

<400> 132

Gln Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Xaa Ile Glu Val
 1 5 10 15
 Val Gln Gly His Asp Glu
 20

<210> 133

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicited Th Motifs (B-cell epitopes)

<400> 133

Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu Ala Tyr Arg Ile Tyr
 1 5 10 15
 Thr Pro Phe Asp Leu Ser Ala
 20

SubA1

Gln Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Xaa Ile Glu Val

<213> Artificial Sequence

<223> Predicted HLA A2.1 Motifs (T-cell epitopes)

1

<213> Artificial Sequence

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

1

<213> Artificial Sequence

<223> Predicited HLA A2.1 Motifs \ (T-cell epitopes)

<223> Xaa = Any Amino Acid

1

<213> Artificial Sequence

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

Glu Val Val Gln Gly His Asp Glu Ser

SubA

[illegible]

1 5

<210> 138
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 138
 His Leu Gln Glu Ala Tyr Arg Ile Tyr
 1 5

<210> 139
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 139
 Asn Leu Ala Phe Val Ala Gln Ala Ala
 1 5

<210> 140
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 140
 Phe Val Ala Gln Ala Ala Pro Asp Ser
 1 5

<210> 141
 <211> 9388
 <212> DNA
 <213> Homo sapien

<400> 141

gctcgcggcc	gcgagctcaa	ttaaccctca	ctaaagggag	tcgactcgat	cagactgtta	60
ctgtgtctat	gtagaaagaa	gtagacataa	gagattccat	tttgttctgt	actaagaaaa	120
attcttctgc	cttgagatgc	tgtaaatctg	taaccctagc	cccaaccctg	tgctcacaga	180
gacatgtgct	gtgttgactc	aaggttcaat	ggatttaggg	ctatgctttg	ttaaaaaagt	240
gcttgaagat	aatatgcttg	ttaaaagtca	tcaccattct	ctaattctca	gtaccacagg	300
acacaatata	ctgcggaagg	cgcgaggac	ctctgtctag	gaaagccagg	tattgtccaa	360
gatttctccc	catgtgatag	cctgagatat	ggcctcatgg	gaagggttaag	acctgactgt	420

cccccagccc gacatccccc agcccagacat cccccagccc gacacccgaa aaggggtctgt 480
 gctgaggagg attagtaaaa gaggaaggcc tctttgcagt tgaggtaaga ggaaggcatc 540
 tgtctcctgc tcgtccctgg gcaatagaat gtcttggtgt aaaacccgat tgtatgttct 600
 acttactgag ataggagaaa acatccttag ggctggaggt gagacacgct ggcggcaata 660
 ctgctcttta atgcaccgag atgtttgtat aagtgcacat caaggcacag cacctttcct 720
 taaacttatt tatgacacag agacctttgt tcacgttttc ctgctgaccc tctccccact 780
 attaccctat tggcctgcca catccccctc tccgagatgg tagagataat gatcaataaa 840
 tactgaggga actcagagac cagtgtccct gtaggtccctc cgtgtgctga gcgccggtcc 900
 cttgggctca cttttctttc tctatacttt gtctctgtgt ctctttcttt tctcagtctc 960
 tcgttccacc tgacgagaaa taccacaggt tgtggagggg caggccaccc cttcaataat 1020
 ttactagcct gtctgctgac aacaagactg gtggtgcaga aggttgggtc ttggtgttca 1080
 ccgggtggca ggcattggcc aggtgggagg gtctccagcg cctggtgcaa atctccaaga 1140
 aagtgcagga aacagacca aggttgattg taaattttga tttggcggcg caggtagcca 1200
 ttccagcgca aaaatgcgca ggaaagcttt tgctgtgctt gtaggcaggt aggccccaag 1260
 cacttcttat tggctaattg ggagggaaac tgcacatcca ttggtgaaa tctccgtcta 1320
 tttgaggctg actgagcgcg ttcttttctt ctgtgttgcc tggaaacgga ctgtctgect 1380
 agtaacatct gatcacgttt cccattggcc gccgtttccg gaagcccgcc ctcccatttc 1440
 cggaagcctg gcgcaagggt ggtctgcagg tggcctccag gtgcaaagtg ggaagtgtga 1500
 gtccctcagtc ttgggtctatt cggccacgtg cctgccggac atgggacgct ggagggctcag 1560
 cagcgtggag tcttgccctt ttgcgtccac ggggtgggaaa ttggccattg ccacggcggg 1620
 aactgggact caggctgccc ccgggccgtt tctcatccgt ccaccggact cgtgggcgct 1680
 cgcactggcg ctgatgtagt ttctgacct ctgaccogta ttgtctccag attaaaggta 1740
 aaaacggggc tttttcagcc cactcgggta aaacgccttt tgatttctag gcagggtgtt 1800
 tgttgacgcg ctgggagggg gtgaccgcga ggttgagggt tattaaaata cattcctggt 1860
 ttatgttatg tttataataa agcaccccaa cctttacaaa atctcacttt ttgccagttg 1920
 tattatttag tggactgtct ctgataagga cagccagtta aaatggaatt ttgttgttgc 1980
 taattaaacc aatttttagt tttggtgttt gtctaatag caacaacttc tcaggcttta 2040
 taaaaccata tttcttgggg gaaatttctg tgtaaggcac agcgagttag tttggaattg 2100
 ttttaaagga agtaagttcc tgggtttgat atcttagtag tgtaatgccc aacctggttt 2160
 ttactaaccg tgtttttaga ctctcccttt ccttaaacta cctagccttg tttccacctg 2220
 aattgactct cccttagcta agagcgccag atggactcca tcttggctct ttcactggca 2280
 gccccttct caaggactta acttgtgcaa gctgactccc agcacatcca agaatgcaat 2340
 taactgttaa gatactgtgg caagctatat ccgcagttcc gaggaattca tccgattgat 2400
 tatgccaaa agcccccggt ctatcacctt gtaataatct taaagccctt gcacctggaa 2460
 ctattaactt tctgttaacc atttatcctt ttaacttttt tgcttacttt atttctgtaa 2520
 aattgtttta actagacctc cctccccctt tctaaaccaa agtataaaaag aagatctagc 2580
 cccttcttca gagcggagag aatttttgagc attagccatc tcttggcggc cagctaaata 2640
 aatggacttt taatttgtct caaagtgtgg cgttttctct aactcgctca ggtacgacat 2700
 ttggaggccc cagcgagaaa cgtcaccggg agaaacgtca ccgggcgaga gccgggcccg 2760
 ctgtgtgctc ccccggaagg acagccagct tgtagggggg agtgccactt gaaaaaaaaa 2820
 tttccaggte cccaaagggt gaccgtcttc cggaggacag cggatcgact accatgcggg 2880
 tgcccaccaa aattccacct ctgagtcctc aactgctgac cccgggggtc ggtaggtcag 2940
 atttgacttt ggttctggca gaggggaagc accctgatga ggggtgtcct cttttgactc 3000
 tgcccatttc tctaggatgc tagagggtag agccctggtt ttctgttaga gcctctgtg 3060
 tctctgtctg ggaggggaagt ggccctgaca ggggccatcc cttgagtcag tccacatccc 3120
 aggatgctgg gggactgagt cctggtttct ggcagactgg tctctctctc tctctttttc 3180
 tatctctaatt ctttcttctg tcaggtttct tggagaatct ctgggaaaga aaaaagaaaa 3240
 actgttataa actctgtgtg aatggtgaat gaatggggga ggacaagggc ttgcgcttgt 3300
 cctccagttt gtagctccac ggcgaaagct acggagttca agtgggccct cacctgcggg 3360
 tccgtggcga cctcataagg ctaagggcag catccggcat agctcgatcc gagccggggg 3420
 tttataccgg cctgtcaatg ctaagaggag cccaagtccc ctaaggggga gccggccaggc 3480

gggcatctga ctgatcccat cacgggaccc cctccccctt tttgtctaaa aaaaaaaaaa 3540
 gaagaaactg tcataactgt ttacatgccc taggggtcaac tgtttgtttt atgtttattg 3600
 ttctgttcgg tgtctattgt cttgtttagt ggttgcaag gttttgcatg tcaggacgtc 3660
 gatattgccc aagacgtctg ggtaagaact tctgcaaggt ccttagtgct gattttttgt 3720
 cacaggaggt taaattttct atcaatcatt taggctggcc accacagtcc tgtcttttct 3780
 gccagaagca agtcagggtg tgttacggga atgagtgtaa aaaaacattc gcttgattgg 3840
 gattttctgg accatgatgg ttgtatttag attgtcatac cccacatcca ggttgattgg 3900
 acctcctcta aactaaactg gtgggtgggtt caaaacagcc accctgcaga ttctcttgct 3960
 cacctctttg gtcattctgt aacttttctt gtgcccttaa atagcacact gtgtagggaa 4020
 acctaccctc gtactgcttt acttcgttta gattcttact ctgttctctt gtggctactc 4080
 tcccatctta aaaacgatcc aagtgtctt ttctctctc cctgccccct accccacaca 4140
 tctcgttttc cagtgcgaca gcaagttcag cgtctccagg acttggtctt gctctcactc 4200
 cttgaaccct taaaagaaaa agctgggttt gagctatttg cctttgagtc atggagacac 4260
 aaaagggtatt tagggtagag atctagaaga agagagagaa cacctagatc caactgaccc 4320
 aggagatctc gggctggcct ctagtccctc tccctcaatc ttaaagctac agtgatgtgg 4380
 caagtgggat ttagctgttg tggtttttct gctctttctg gtcattgtga ttctgttctt 4440
 tcgatactcc agccccccag ggagtgagtt tctctgtctg tgctgggttt gatattctatg 4500
 ttcaaatctt attaaattgc cttcaaaaaa aaaaaaaaaa gggaaacact tctctccagc 4560
 cttgtaaagg ttggagccct ctccagtata tgcctgcagaa tttttctctc ggtttctcag 4620
 aggattatgg agtccgcctt aaaaaaggca agctctggac actctgcaaa gtagaatggc 4680
 caaagtttgg agttgagtgg ccccttgaag ggtcactgaa cctcacaatt gttcaagctg 4740
 tgtggcgggt tgttactgaa actcccgccc tccctgatca gtttccctac attgatcaat 4800
 ggctgagttt ggtcaggagc accccttcca tggctccact catgcacatc tcataatttt 4860
 acctccaagg tctcctgag ccagaccgtg ttttcgcctc gacctcagc cggttcagct 4920
 cgccctgtac tgcctctctc tgaagaagag gagagtctc ctcacccagt cccaccgct 4980
 taaaaccagc ctactccctt aggtcatcc catgtctctc cggtatgtc cctgtaggc 5040
 tcatcaccca ttgctcttg gttgcaaccg tgggtggagg aagtagcccc tctactacca 5100
 ctgagagagg cacaagtccc tctgggtgat gagtgtcca ccccttctt ggtttatgtc 5160
 cttcttttct acttctgact tgtataattg gaaaaccat aatcctcct tctctgaaa 5220
 gccccaggt ttgacctcac tgatggagtc tgtactctgg acacattggc ccacctggga 5280
 tgactgtcaa cagctccttt tgacctttt cacctctgaa gagagggaaa gtatccaaag 5340
 agaggccaaa aagtacaacc tcacatcaac caataggccg gaggagggaag ctagagggaat 5400
 agtgattaga gacccaattg ggacctaat gggacccaaa tttctcaagt ggaggagaa 5460
 cttttgacga tttccaccgg tatctcctcg tgggtattca gggagctgct cagaaacct 5520
 taaactgtc taaggcgact gaagtgcctc aggggcatga tgagtacca ggagtgttt 5580
 tagagcacct ccaggaggct tatcggattt acaccccttt tgacctggca gccccgaaa 5640
 atagccatgc tcttaatttg gcatttgtgg ctacggcagc cccagatagt aaaaggaaac 5700
 tccaaaaact agagggtatt tgcgtgaatg aataccagtc agcttttaga gatagcctaa 5760
 aaggtttttg acagtcaaga ggttgaaaaa caaaaacaag cagctcaggc agctgaaaaa 5820
 agccactgat aaagcatcct ggagtatcag agtttactgt tagatcagcc tcatattgact 5880
 tccccccca catggtgttt aaatccagct acactacttc ctgactcaaa ctccactatt 5940
 cctgttcatg actgtcagga actgttgga actactgaaa ctggccgacc tgatcttcaa 6000
 aatgtgcccc taggaaagggt ggatgccacc gtgttcacag acagtacag cttcctcgag 6060
 aagggaactac gaaaggccgg tgcagctgtt accatggaga cagatgtgtt gtggctcag 6120
 gctttaccag caaacacctc agcacaaaag gctgaattga tcgccctcac tcaggctctc 6180
 cgatggggta aggatattaa cgttaacact gacagcaggt acgcctttgc tactgtcat 6240
 gtacgtggag ccatctacca ggagcgtgg ctactcacct cagcaggtgg ctgtaacca 6300
 ctgtaaagga catcaaaagg aaaacacggc tgttgccgt ggtaaccaga aagctgattc 6360
 agcagctcaa gatgcagtgt gactttcagt cagcctcta aacttgctgc ccacagtctc 6420
 ctttccacag ccagatctgc ctgacaatcc cgcatactca acagaagaag aaaactggcc 6480
 tcagaactca gagccaataa aaatcaggaa ggttggtgga ttcttctga ctctagaatc 6540

ttcatacccc gaactcttgg gaaaacttta atcagtcacc tacagtctac caccatttta 6600
 ggaggagcaa agctacotca gctcctccgg agccgtttta agatccccc tcttcaaagc 6660
 ctaacagatc aagcagctct ccggtgcaca acctgcgccc aggtaaatgc caaaaaaggt 6720
 cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa gtgggaaatt 6780
 gactttacag aagtaaaacc acaccgggct ggtacaaaat accttctagt actggtagac 6840
 accttctctg gatggactga agcatttgct accaaaaacg aaactgtcaa tatggtagtt 6900
 aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat agggctctgat 6960
 aatggaccgg ccttcgcctt gtctatagtt tagtcagtca gtaaggcgtt aaacattcaa 7020
 tggaagctcc attgtgccta tcgaccccag agctctgggc aagtagaacg catgaaactgc 7080
 accctaaaaa acactcttac aaaattaatc ttagaaaaccg gtgtaaattg tgtaagtctc 7140
 cttccttttag cctacttag agtaaggtgc accccttact gggctgggtt cttacctttt 7200
 gaaatcatgt atgggagggc gctgcctatc ttgcctaagc taagagatgc ccaattggca 7260
 aaaaatcac aaactaattt attacagtac ctacagtctc cccaacaggt acaagatatc 7320
 atcctgccac ttgttcgagg aaccatccc aatccaattc ctgaacagac agggccctgc 7380
 cattcattcc cgcaggtga cctgttggtt gttaaaaagt tccagagaga aggactccct 7440
 cctgcttggg agagacctca caccgtcatc acgatgccaa cggctctgaa ggtggatggc 7500
 attcctgcgt ggattcatca ctcccgcatc aaaaaggcca acggagccca actagaaaca 7560
 tgggtcccca gggctgggtc aggcccttta aaactgcacc taagttgggt gaagccatta 7620
 gattaattct ttttcttaat ttgtaaaac aatgcatagc ttctgtcaaa cttatgtatc 7680
 ttaagactca atataacccc ctgtttataa ctgaggaatc aatgatttga tccccaaaa 7740
 acacaagtgg ggaatgtagt gtccaacctg gtttttacta accctgtttt tagactctcc 7800
 ctttctctta atcactcagc ctgttttcca cctgaattga ctctccctta gctaagagcg 7860
 ccagatggac tccatcttgg ctctttcact ggcagccgct tcccaagga cttaacttgt 7920
 gcaagctgac tcccagcaca tccaagaatg caattaactg ataagatact gtggcaagct 7980
 atatccgcag tcccaggaa ttctgccaat tgattacaac caaaagcccc gcgtctatca 8040
 ccttgaata atcttaaagc cctgcacct ggaactatta acgttccgtg aaccatttat 8100
 ccttttaact tttttgcta ctttatttct gtaaaattgt ttttaactaga cccccctct 8160
 cctttctaaa ccaagtata aaagcaaact tagcccttct tcaggccga gagaatttctg 8220
 agcgttagcc gtctcttggc caccagctaa ataaacggat tcttcatgtg tctcaaagtg 8280
 tggcgttttc tctaactcgc tcaggtaagc ccgtggtagt atttcccca acgtcttatt 8340
 ttttagggcac gtatgtagag taacttttat gaaagaaacc agttaaggag gttttgggat 8400
 ttctcttata aactgtaata ctggttttga ttatttattt atttatttat ttttttgag 8460
 aaggagtttc actcttggtg ccagggctgg agtgcaatgg tgcgatcttg gctcactgca 8520
 acttccgcct ccaggttca agcgattctc ctgcctcagc ctcgagagta gctgggatta 8580
 taggcattgc ccaccacacc cagctaattt tgtattttta gtaaagatgg ggtttcttca 8640
 tgttggtcaa gctggtctgg aactccccgc ctggggtgat ctgcccgcct cggcctccga 8700
 aagtgtctgg attacaggtg tgatccacca caccagcccg atttatatgt atataaatca 8760
 cattcctcta accaaaatgt agtgtttcct tccatcttga atataggctg tagaccccg 8820
 gggatatggg cattgttaac agtgagacca cagcagtttt tatgtcatct gacagcatct 8880
 ccaaatagcc ttcatggttg tcaactgttc ccaagacaat tccaaataac acttcccagt 8940
 gatgacttgc tacttgctat tgttacttaa tgtgttaagg tggtgtttac agacactatt 9000
 agtatgtcag gaattacacc aaaatttagt ggctcaaaca atcattttat tatgtatgtg 9060
 gattctcatg gtcaggctcag gatttcagac agggcacaag ggtagcccac ttgtctctgt 9120
 ctatgatgtc tggcctcagc acaggagact caacagctgg ggtctgggac catttgagg 9180
 cttgttccct cacatctgat acctggcttg ggatgttggg agaggggggtg agctgagact 9240
 gagtgccat atgtagtgtt tccatatggc cttgacttcc ttacagcctg gcagcctcag 9300
 ggtagtcaga attcttagga ggcacagggc tccagggcag atgctgaggg gtcttttatg 9360
 aggtagcaca gcaaatccac ccaggatc 9388

<210> 142

<211> 419

<400> 146

tagcatgttg agcccagaca cttgtagaga gaggaggaca gttagaagaa gaagaaaagt 60
 ttttaaattgc tgaagttac tataagaaag ctttggcttt ggatgagact tttaaagatg 120
 cagaggatgc tttgcagaaa cttcataaat atatgcagggt gattccttat ttcctcctag 180
 aaatttagtg atatttgaaa taatgcccaa acttaatttt ctcttgagga aaactattct 240
 acattactta agtaaggcat tatgaaaagt ttcttttttag gtatagtttt tcctaattgg 300
 gtttgacatt gcttcatagt gctctgttt ttgtccataa tcgaaagtaa agatagctgt 360
 gagaaaacta ttacctaaat ttggtatgtt gttttgagaa atgtccttat agggagctca 420
 cctggtggtt tttaaattat tgttgctact ataattgagc taattataaa aacctttttg 480
 agacatatatt taaattgtct tttcctgtaa tactgatgat gatgttttct catgcatttt 540
 cttctgaatt gggaccattg ctgctgtgtc tgggctcaca tgcta 585

<210> 147

<211> 579

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (579)

<223> n = A,T,C or G

<400> 147

tagcatgttg agcccagaca ctgggcagcg ggggtggcca cggcagctcc tgccgagccc 60
 aagcgtgttt gtctgtgaag gacctgacg tcacctgcca ggctagggag ggggtcaatgt 120
 ggagtgaatg ttcaccgact ttgcaggag tctgcagaag ccagggtgcaa cttggtttgc 180
 ttgtgttcat caccctcaa gatatgcaca ctgctttcca aataaagcat caactgtcat 240
 ctccagatgg ggaagacttt ttctccaacc agcaggcagg tccccatcca ctccagacacc 300
 agcacgtcca ccttctcggg cagcaccacg tcttccacct tctgtggta cacggtgatg 360
 atgtcagcaa agcgttctg cangaccagc tgcccggtgt gctgtgccat ctcaactggc 420
 tccaccgct acaccgctct aggcgcgcga tantgtgcac agaanaaatg atgatccagt 480
 cccacagccc acgtccaaga ngactttatc cgtcagggat tctttattct gcaggatgac 540
 ctgtggtatt aattgttcgt gtctgggctc aacatgcta 579

<210> 148

<211> 249

<212> DNA

<213> Homo sapien

<400> 148

tgacaccttg tccagcatct gcaagccagg aagagagtc tccccaagat cccaccccg 60
 ttggcaccag gatcttggac ttccaatctc cagaactgtg agaaataagt atttgtcgt 120
 aaataaatct ttgtggtttc agatatttag ctatagcaga tcagggtgac taagagaaac 180
 ccataagag ttacatactc attaattctc gtctctatcc ccagggttca gatgctggac 240
 aagggtgtca 249

<210> 149

<211> 255

<212> DNA

<213> Homo sapien

CCGCAGCGGGGTGGCCA

SubA1

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.4	0.5	0	1
Education	12.5	1.5	10	15
Income	3500	1500	1000	6000
Health	0.6	0.5	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.5	0.5	0	1
Depression	0.3	0.5	0	1
Loneliness	0.4	0.5	0	1
Life Satisfaction	0.6	0.5	0	1
Quality of Life	0.7	0.5	0	1
Overall Health	0.8	0.5	0	1

<400> 150

```
<210> 151
<211> 323
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(323)  
<223> n = A,T,C or G
```

```
<210> 152
<211> 311
<212> DNA
<213> Homo sapien
```

<400> 152

tcaagattcc	ataggctgac	cagtccaagg	agagttgaaa	tcatgaagga	gagtctatct	60
ggagagagct	gtagttttga	gggttgcaaa	gacttaggat	ggagttggtg	gggtgtggtta	120
gtctctaagg	ttgattttgt	tcataaattt	catgccttga	atgccttgct	tgccctacccc	180
tggtccaagc	cttagtgaac	acctaaaagt	ctctgtcttc	ttgctctcca	aacttctcct	240
gaggatttcc	tcagattgtc	tacattcaga	tcgaagccag	ttggcaaaca	agatgcagtc	300
cagaggggtca	g					311

<210> 153
 <211> 332
 <212> DNA
 <213> Homo sapien

<400> 153
 caagattcca taggctgacc aggaggctat tcaagatctc tggcagttga ggaagtctct 60
 ttaagaaaat agtttaaca atttgttaa attttctgt cttacttcat ttctgtagca 120
 gttgatatct ggctgtcctt tttataatgc agagtgggaa ctttccctac catgtttgat 180
 aaatgttgtc caggctccat tgccaataat gtgttggtcca aaatgcctgt ttagttttta 240
 aagacgggaa tccaccctt gcttggtctt aagtatgtat ggaatgttat gataggacat 300
 agtagtagcg gtggtcagcc tatggaatct tg 332

<210> 154
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (345)
 <223> n = A,T,C or G

<400> 154
 tcaagattcc ataggetgac ctggacagag atctcctggg tctggcccag gacagcaggc 60
 tcaagctcag tggagaaggt ttccatgacc cttagattcc cccaaacctt ggattgggtg 120
 acattgcac tctcagaga gggaggagat gtangtctgg gcttccacag ggacctggtg 180
 ttttaggac agggtaaccg tggcctgagg cttggatcat tcanagcctg ggggtggaat 240
 ggctggcagc ctgtggcccc attgaaatag gctctggggc actccctctg ttctanttg 300
 aacttgggta aggaacagga atgtggtcan cctatggaat cttga 345

<210> 155
 <211> 295
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (295)
 <223> n = A,T,C or G

<400> 155
 gacgcttggc cacttgacac attaaacagt tttgcataat cactancatg tatttctagt 60
 ttgctgtctg ctgtgatgcc ctgcctgat tctctggcgt taatgatggc aagcataatc 120
 aaacgctgtt ctgttaattc caagttataa ctggcattga ttaaagcatt atctttcaca 180
 actaaactgt tcttcatana acagcccata ttattatcaa attaagaga aatgtattcc 240
 aatatacttt anggccaata tatttnatgt ccttaatta agagctactg tccgt 295

<210> 156
 <211> 406
 <212> DNA

$\langle 220 \rangle$ $\langle 222 \rangle \setminus (1) \dots (406)$
$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

<400> 156

gacgcttggc	cacttgacac	tgcagtggga	aaaccagcat	gagccgctgc	ccccaggaa	60
cctcgaagcc	caggcagagg	accagccatc	ccagccctgc	ggtaaagtgt	gtcacctgtc	120
aggtgggctt	ggggtgagt	gggtggggaa	gtgtgtgtgc	aaagggggtg	tnaatgtnta	180
tgcgtgtgag	catgagtgat	ggctagtgtg	actgcatgtc	agggagtgtg	aacaagcgtg	240
cgggggtgtg	tgtgcaagt	cgtatgcata	tgagaatatg	tgtctgtgga	tgagtgcatt	300
tgaaagtctg	tgtgtgtgcg	tgtgggtcatg	anggtaantt	antgactgcg	caggatgtgt	360
gagtgtgcat	ggaacactca	ntgtgtgtgt	caagtggccn	ancgtc		406

<210> 157

<211> 208

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (208)$

$\langle 223 \rangle$ n = A, T, C or G

<400> 157

tgacgcttgg	ccacttgaca	cactaaaggg	tgttactcat	cactttcttc	tctcctcggt	60
ggcatgtgag	tgcattctatt	cacttggcac	tcatttgttt	ggcagtgact	gtaanccana	120
tctgatgcac	acaccagctt	gtaaattgaa	taaatgtctc	taatactatg	tgctcacaat	180
anggtanggg	tgaggagaag	gggagaga				208

<210> 158

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (547)$

$\langle 223 \rangle$ n = A, T, C or G

<400> 158

cttcaacctc	cttcaacctc	cttcaacctc	ctggattcaa	acaatcatcc	cacctcagac	60
tccttagtag	ctgagactac	agactcacgc	cactacatct	ggctaattt	ttgtagagat	120
agggtttcat	catgttgccc	tggtgggtct	caaactcctg	acctcaagca	atgtgcccac	180
ctcagcctcc	caaagtgtgt	ggattacagg	cataagccac	catgccaggt	ccatntttaa	240
tctttcctac	cacattctta	ccacactttc	ttttatgttt	agatacataa	atgcttacca	300
ttatgataca	attgccaca	gtattaagac	agtaacatgc	tgcacagggt	tgtagcctag	360
gaacagtagg	caataccaca	tagcttaggt	gtgtggtaga	ctataccatc	taggtttgtg	420
taagttacac	tttatgtctgt	ttacacaatg	acaaaaccat	ctaattgatgc	atttctcaga	480

[illegible]

<400> 159

<400> 160

<400> 161

<400> 162

<210> 163
<211> 294

<212> DNA
<213> Homo sapien

<400> 163

tagcatgttg agccagaca caaatctttc cttaagcaat aaatcatttc tgcataatggt	60
tttaaaacca cagctaagcc atgattattc aaaaggacta ttgtattggg tatttttgatt	120
tgggttctta tctccctcac attatcttca tttctatcat tgacctctta tcccagagac	180
tctcaaactt ttatgttata caaatcacat tctgtctcaa aaaatatctc acccacttct	240
cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtctg ggctcaacat gcta	294

<210> 164

<211> 412

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(412)

<223> n = A,T,C or G

<400> 164

cgggattggc tttgagctgc agatgctgcc ttgaccgca cccggcgtgg aacagaaagc	60
cacctggctg caagtgcgcc agagccgccc tgactacgtg ctgctgtggg gctggggcgt	120
gatgaactcc accgcctga aggaagccca ggccaccgga tccccccgag acaagatgta	180
cggcgtgtgg tgggcccgtg cggagcccga tgtgcgtgac gtgggcgaag gcgccaaggg	240
ctacaacgag ctggctctga acggctacgg cagcagtcac aaggatgatc angacatcct	300
gaaacacgtg cagcacaagg gccagggcac gggggccaaa gacgaagtgg gctcgggtgct	360
gtacaccgag ggcgtgatca tccagatgct ggacaaggtg tcaatcacta at	412

<210> 165

<211> 361

<212> DNA

<213> Homo sapien

<400> 165

ttgacacctt gtccagcatc tgcattctgat gagagcctca gatggctacc actaatggca	60
gaaggcaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga ggggagaaaag	120
gtgctaggtt cttttcaaca accagttctt gatggaactg agagtaagag ctcaaggcca	180
ggtgtggtga ctccaaccag taatcccaac attttaggag gctgaggcag gcagatgtct	240
tgaccccatg agttttgtgac cagcctgaac aacatcatga gactccatct ctacaataat	300
tacaaaaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgctgg acaaggtgtc	360
a	361

<210> 166

<211> 427

<212> DNA

<213> Homo sapien

<400> 166

twgactgact catgtcccct acacccaact atcttctcca ggtggccagg catgatagaa	60
tctgatcctg acttagggga atattttctt ttacttccc atcttgattc cctgccgggtg	120

SubA1

```

agtttctctgg ttcagggtaa gaaaggagct caggccaaag taatgaacaa atccatcctc 180
acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagAAC 240
mcttamctag gatracaamc merraratar ktgcycmcmc wtataataga aaccaaactt 300
gtatctaatt aaatatattat ccacygtcag ggcattagt gttttgataa atacgctttg 360
gctaggattc ctgaggttag aatggaaraa caattgcamc gagggtaggg gacatgagtc 420
aktctaa 427

```

<210> 167

<211> 500

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(500)

<223> n = A,T,C or G

<400> 167

```

aacgtcgcat gctcccggcc gccatgcccg cgggatagac tgactcatgt cccctaagat 60
agaggagaca cctgctaggt gtaaggagaa gatggttagg tctacggagg ctccagggtg 120
ggagtagttc cctgctaagg gagggtagac tgttcaacct gttcctgctc cggcctccac 180
tatagcagat gcgagcagga gtaggagaga gggaggtaag agtcagaagc ttatgttggt 240
tatgcgggga aacgccttat cgggggcagc cragttatta ggggacantr tagwyartcw 300
agntagcatc caaagcnggg gagttntccc atatggttgg acctgcaggc ggccgcatta 360
gtgattagca tgtgagcccc agacacgcac agcaacaagg acctaaactc agatcctgtg 420
ctgattactt aacatgaatt attgtattta ttttaacaact ttgagttatg aggcataatta 480
ttaggtccat attacctgga 500

```

<210> 168

<211> 358

<212> DNA

<213> Homo sapien

<400> 168

```

ttcatcgctc ggtgactcaa gcctgtaatc ccagaacttt gggaggccga ggggagcaga 60
tcacctgagg ttgggagttt gagaccagcc tggccaacat ggtgacaacc cgtctctgct 120
aaaaatacaa aaattagcca agcatggttg catgcacttg taatccagc tactcgggag 180
gctgaggcag gagaatcact tgaggccagg aggcagaggt tgcagtgagg cagaggttga 240
gatcatgcca ctgcactcca gcctgggcaa cagagtaaga ctccatctca aaaaaaaaaa 300
aaaaaaaaaa tgatcagagc cacaataca gaaaaccttg agtcaccgag cgatgaaa 358

```

<210> 169

<211> 1265

<212> DNA

<213> Homo sapien

<400> 169

```

ttctgtccac accaatctta gagctctgaa agaatttgtc tttaaatata ttttaatagt 60
aacatgtatt ttatggacca aattgacatt ttcgactatt ttttcccaaa aaaagtcagg 120
tgaatttcag cacactgagt tgggaatttc ttatcccaga agwcggcacg agcaatttca 180
tatttattta agattgattc catactccgt tttcaaggag aatccctgca gtctccttaa 240

```

aggtagaaca aatactttct attttttttt caccattgtg ggattggact ttaagaggtg 300
 actctaaaaa aacagagAAC aaatatgtct cagttgtatt aagcacggac ccatattatc 360
 atattcactt aaaaaaatga tttcctgtgc accttttggc aacttctctt ttcaatgtag 420
 ggaaaaactt agtcacctg aaaaccaca aaataaataa aacttgtaga tgtgggcaga 480
 argtttgggg gtggacattg tatgtgttta aattaaaccc tgtatcactg agaagctgtt 540
 gtatgggtca gagaaaatga atgcttagaa gctgttcaca tcttcaagag cagaagcaaa 600
 ccacatgtct cagctatatt attatttatt ttttatgcat aaagtgaatc atttcttctg 660
 tattaatttc caaagggttt taccctctat ttaaatgctt tgaaaaacag tgcattgaca 720
 atgggttgat atttttcttt aaagaaaaa tataattatg aaagccaaga taatctgaag 780
 cctgttttat tttaaaactt tttatgttct gtgggttgatg ttgtttgttt gtttgtttct 840
 attttgttgg ttttttactt tgtttttgt tttgtttgt tttggtttdg catactacat 900
 gcagtttctt taaccaatgt ctgtttggct aatgtaatta aagttgttaa tttatatgag 960
 tgcatttcaa ctatgtcaat ggtttcttaa ttttattgt gtagaagtac tggtaatttt 1020
 tttatttaca atatgtttaa agagataaca gtttgatatg tttcatgtg tttatagcag 1080
 aagttattta tttctatggc attccagcgg atattttggt gtttgcgagg catgcagtca 1140
 atattttgta cagtttagtg acagtattca gcaacgcctg atagcttctt tggccttatg 1200
 ttaaataaaa agacctgttt gggatgtaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 1260
 aaaaaa 1265

<210> 170

<211> 383

<212> DNA

<213> Homo sapien

<400> 170

tgtaagtcca gcagtgtgat gacgatattc ttcttattaa tgtggtaatt gaacaaatga 60
 tctgtgatac tgatcctgag ctaggaggcg ctgttcagtt aatgggactt ctctgtactc 120
 taattgatcc agagaacatg ctggctacaa ctaataaaac cgaaaaaagt gaattttctaa 180
 attttttcta caaccattgt atgcatgttc tcacagcacc acttttgacc aatacttcag 240
 aagacaaatg tgaaaaggat aatatagttg gatcaaaca aaacaacaca atttgtcccg 300
 ataattatca aacagcacag ctacttgcc taattttaga gttactcaca ttttgtgtgg 360
 aacatcacac tgctcgactt aca 383

<210> 171

<211> 383

<212> DNA

<213> Homo sapien

<400> 171

tgggcacctt caatatcgca agttaaaaat aatgttgagt ttattatact tttagacctgt 60
 ttagctcaac aggggtgaagg catgtaaaga atgtggactt ctgaggaatt ttctttttaa 120
 aagaacataa tgaagtaaca ttttaattac tcaaggacta cttttgggtg aagtttataa 180
 tctagatacc tctacttttt gtttttgctg ttcgacagtt cacaaagacc tttagcaatt 240
 tacagggtaa aatcgttgaa gtagtggagg tgaaactgaa attttaaatt attctgtaaa 300
 tactataggg aaagaggctg agcttagaat cttttgggtg ttcatgtgtt ctgtgctctt 360
 atcatcacac tgctcgactt aca 383

<210> 172

<211> 699

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (699)
 <223> n = A,T,C or G

<400> 172

tcgggtgatg cctcctcagg cttgtcggtta gtgtacacag agctgctcat gaagcgacag 60
 cggctgcccc tggcacttca gaacctcttc ctctacactt ttgggtgcgct tctgaatcta 120
 ggtctgcatg ctggcggcgg ctctggccca ggctcctcgg aaagtttctc aggatgggca 180
 gcactcgtgg tgctgagcca ggcactaaat ggactgctca tgtctgctgt catggagcat 240
 ggcagcagca tcacacgcct ctttgtggtg tctgtctcgc tgggtggtcaa cgccgtgctc 300
 tcagcagtcg tgctacggct gcagctcaca gccgccttct tctgggccac attgctcatt 360
 ggcttgccca tgcgcctgta ctatggcagc cgctagtcgc tgacaacttc caccctgatt 420
 ccggaccctg tagattgggc gccaccacca gatccccctc ccaggccttc ctccctctcc 480
 catcagcggc cctgtaacaa gtgccttgtg agaaaagctg gagaagtggg ggcagccagg 540
 ttattctctg gaggttgggt gatgaagggg taccctagg agatgtgaag tgtgggtttg 600
 gttaaggaaa tgcttaccat cccccacc ccaccaagtt nttccagact aaagaattaa 660
 ggtaacatca atacctaggc ctgaggaggc atcacccga 699

<210> 173
 <211> 701
 <212> DNA
 <213> Homo sapien

<400> 173

tcgggtgatg cctcctcagg ccagatcaaa cttgggggtg aaaactgtgc aaagaaatca 60
 atgtcggaga aagaattttg caaaagaaaa atgcctaatt agtactaatt taataggtca 120
 cattagcagt ggaagaagaa atgttgatat tttatgtcag ctattttata atcaccagag 180
 tgcttagctt catgtaagcc atctcgtatt cattagaaat aagaacaatt ttattcgtcg 240
 gaaagaactt ttcaatttat agcatcttaa ttgctcagga ttttaaattt tgataaagaa 300
 agtccactt ttggcaggag tagggggcag ggagagagga ggtccatcc acaaggacag 360
 agacaccagg gccagtaggg tagctggtgg ctggatcagt cacaacggac tgacttatgc 420
 catgagaaga aacaacctcc aaatctcagt tgcttaatac aacacaagct catttcttgc 480
 tcacgttaca tgcctatgt agatcaacag caggtgactc agggaccag gctccatctc 540
 catatgagct tccatagtca ccaggacacg ggctctgaaa gtgtcctca tgcagggaca 600
 catgcctctt cctttcattg ggcagagcaa gtcacttatg gccagaagtc aactgcagg 660
 gcagtgccat cctgctgtat gcctgaggag gcacacccg a 701

<210> 174
 <211> 700
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (700)
 <223> n = A,T,C or G

<400> 174

tcgggtgatg cctcctcang ccctaaatc agagtccagg gtcagagcca caggagacag 60

[illegible]

```
<220>  
<221> misc_feature  
<222> (1)...(484)  
<223> n = A,T,C or G
```

```
<210> 176
<211> 432
<212> DNA
<213> Homo sapien
```

```
<210> 177
<211> 788
<212> DNA
```

tagcatgttg	agcccagaca	ctggttacaa	gaccagacct	gcttcctcca	tatgtaaac	60
gcttttaaaa	agccagtga	cctttttaat	actttggcaa	ccttcctcca	caggcaaga	120
acacccccat	ccgccccttg	tttgagtg	agagtttggc	tttggttctt	tgccttgctt	180
ggagtatact	tctaattcct	gttgctctgc	acaagctgaa	taccgagcta	cccaccgcca	240
cccaggccag	gtttccactc	atttattact	ttatgtttct	gttccattgc	tgggtccacag	300
aaataagttt	tcctttggag	gaatgtgatt	ataccacctt	aatttctctc	ttttgctttt	360

SubA1

```

ttttaaatatc attggtatgt gtttggccca gaggaactg aaattcacca tcatcttgac 420
tggcaatccc attaccatgc tttttttaa aaacgtaatt tttcttgcc tacattggca 480
gagtagccct tcttggtac tgggttaatg tagtcactca gtttctaggt ggcattaggc 540
atgagacctg aagcacagac tgtcttacca caaaagggtga caagatctca aaccttagcc 600
aaagggctat gtcagggttc aatgctatct gcttctgttc ctgctcactg ttctggattt 660
tgtccttctt cctccctagc accagaattt cccagtcctc ctccctacct tccctgtttt 720
taattctaatt ctatcagcaa aataactttt caaatgtttt aaccggtatc tccatgtgtc 780
tgggctcaac atgcta 796

```

<210> 180
 <211> 488
 <212> DNA
 <213> Homo sapien

<400> 180

```

ggatgtgctg caaggcgatt aagtgggta acgccagggt tttcccagtc acgacgttgt 60
aaaacgacgg ccagtgaatt gtaatacgac tcactatagg gcgaattggg cccgacgtcg 120
catgctcccg gccgccatgg ccgcgggata gcatgttgag cccagacacc tgcagggtcat 180
ttggagagat ttttcacgtt accagcttga tgggtctttt caggaggaga gacactgagc 240
actcccaagg tgagggtgaa gatttcctct agatagccgg ataagaagac taggagggat 300
gcctagaaaa tgattagcat gcaaatttct acctgccatt tcagaactgt gtgtcagccc 360
acattcagct gcttctgtg aactgaaaag agagagggtat tgagactttt ctgatggccg 420
ctctaacatt gtaacacagt aatctgtgtg tgtgtgggtg tgtgtgtgtg tctgggctca 480
acatgcta 488

```

<210> 181
 <211> 317
 <212> DNA
 <213> Homo sapien

<400> 181

```

tagcatgttg agcccagaca cggcgacggt acctgatgag tgggtgatg gcacctgtga 60
aaaggaggaa cgtcatcccc catgatattg gggaccaga tgatgaacca tggctcccg 120
tcaatgcata ttaatccat gatactgctg attggaagga cctgaacctg aagtttgtgc 180
tgcaggttta tggggactat tacctcacgg gtgatcaaaa ctctctgag gacatgtggc 240
ctgtgtgtct agtaagggtat gcacatgcag tggccagtgt gccaggggta tggttgtgtg 300
ctgggctcaa catgcta 317

```

<210> 182
 <211> 507
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (507)
 <223> n = A,T,C or G

<400> 182

```

tagcatgttg agcccagaca ctggctgtta gccaaatcct ctctcagctg ctccctgtgg 60
tttggtgact caggattaca gaggcacccct gtttcaggga acaaaaagat tttagctgcc 120

```

	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534</
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

```
<210> 183
<211> 227
<212> DNA
<213> Homo sapien
```

```
<210> 184
<211> 225
<212> DNA
<213> Homo sapien
```

```
<210> 185
<211> 597
<212> DNA
<213> Homo sapien
```

```
<210> 186
<211> 597
<212> DNA
<213> Homo sapien
```

<400> 186

ggcccggaagt tgcattgtcc cgcccgccat ggcccgggga ttcgttaggg tctctatcca 60
 ctacctaaaa aatcccaaac atataactga actcctcaca cccaattgga ccaatccatc 120
 accccagagg cctacagatc ctcctttgat acataagaaa atttccccaa actacctaac 180
 tatatcattt tgcaagattt gttttaccaa attttgatgg cctttctgag cttgtcagtg 240
 tgaaccacta ttacgaacga tcggatatta actgccccctc accgtccagg tgtagctggc 300
 aacatcaagt gcagtaataa ttcattaagt tttcacctac taagggtgctt aaacacccta 360
 ggggtgccatg tcggtagcag atcttttgat ttgtttttat ttcccataag ggtcctgttc 420
 aagggtcaatc atacatgtag tgtgagcagc tagtcactat cgcattgactt ggaggggtgat 480
 aatagaggcc tcctttgctg ttaaagaact cttgtcccag cctgtcaaag tggatagaga 540
 ccctaacgaa tcactagtgc ggccgctgc aggtcgacca tatgggagag ctcccaa 597

<210> 187

<211> 324

<212> DNA

<213> Homo sapien

<400> 187

tcgttagggg ctctatccac ttgcaggtaa aatccaatcc tgtgtatata ttatagtctt 60
 ccatatgtag tggttcaaga gactgcagtt ccagaaagac tagccgagcc catccatgtc 120
 ttccacttaa ccctgctttg ggttacacat cttaactttt ctgttcaagt ttctctgtgt 180
 agtttatagc atgagtattg ggawaatgcc ctgaacctg acatgagatc tgggaaacac 240
 aaacttactc aataagaatt tctcccatat ttttatgatg gaaaaatttc acatgcacag 300
 aggagtggat agagacccta acga 324

<210> 188

<211> 178

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (178)

<223> n = A,T,C or G

<400> 188

gcgcggggat tcgggggtgat acctcctcat gccaaaatac aacgtntaat ttcacaactt 60
 gccttccaat ttacgcattt tcaatttgct ctccccattt gttgagtcac aacaaacacc 120
 attgcccgaga aacatgtatt acctaacatg cacatactct taaaactact catcctt 178

<210> 189

<211> 367

<212> DNA

<213> Homo sapien

<400> 189

tgacaccttg tccagcatct gacacagtct tggctcttgg aaaatattgg ataaatgaaa 60
 atgaatttct ttagcaagtg gtataagctg agaataacag tatcacatat cctcattcta 120
 agacacattc agtgtccctg aaattagaat aggacttaca ataagtgtgt tcaatttctc 180
 aatagctgtt attcaattga tggtaggcct taaaagtcaa agaaatgaga gggcatgtga 240

Sufai

DDEED-3346360

Sub91
 aaaaaagctc aacatcactg atcattagaa aacttccatt caaaccceca atgagatacc 300
 atctcatacc agtcagaatg gctattatta aaaagtcaaa aaataacaga tgctggacaa 360
 ggtgtca 367

<210> 190
 <211> 369
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(369)
 <223> n = A,T,C or G

<400> 190
 gacaccttgt ccagcatctg acaacgctaa cagcctgagg agatctttat ttatttattt 60
 agtttttact ctggctaggc agatggtggc taaaacattc atttaccat ttattcattt 120
 aattgttctt gcaaggccta tggatagagt attgtccagc actgctctgg aagctaggag 180
 catggggatg aacaagatag gctacatcct gttcccacag aacttccact ttagtctggg 240
 aaacagatga tatatacaaa tatataaatg aattcaggta gttttaagta cgaaaagaat 300
 aagaaagcag agtcatgatt tanaatgctg gaaacagggg ctattgcttg agatattgaa 360
 ggtgcccac 369

<210> 191
 <211> 369
 <212> DNA
 <213> Homo sapien

<400> 191
 tgacaccttg tccagcatct gcacagggaa aagaaactat tatcagagtg aacaggcaac 60
 ctacagaatg ggagaaaatt tttgcaatct atccatctga caaagggcta atatccagaa 120
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180
 ggtggaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc aacaaacata 240
 tgaaaaaaag ctcatcatca ctgggtcacta gataaatgca aatcaaaacc acaatgagat 300
 accatctcat tccagttaga atggcaatca ttaaaaagtc aggaaacac agatgctgga 360
 caaggtgtc 369

<210> 192
 <211> 449
 <212> DNA
 <213> Homo sapien

<400> 192
 tgacgcttgg ccacttgaca cttcatcttt gcacagaaaa acttctttac agatttaatt 60
 caagactggt ctagtgcag tctccagac attttttcat ttgttccata tacgtggaat 120
 tttaaaatca tgtttcatca gtttgaaatg atttgggctg ctaatcaaca caattggatc 180
 gactgttcta ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240
 attgattttt ctttgctttt tacggacttt gttccagcta catgtaatac caagttctct 300
 ttaagaggag aagatgttga tcttcatttg tttctaccag actgccaccc tagtaaatat 360
 tctttattta tgctggtaaa aaattgccat ccaataaga tgattcatga tactggtatt 420
 cctgctgagt gtcaagtggc caagcgtca 449

Sub A1

<210> 193
 <211> 372
 <212> DNA
 <213> Homo sapien

<400> 193
 tgacgcttgg ccacttgaca ccagggatgt akcagttgaa tataatcctg caattgtaca 60
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggccataaa 120
 agctgcaata aataactggg aattgcagta atcatttcag gccaatcaaa tccagtttgg 180
 ctcaagagtg cctttggctg agagaagagg tgagatataa tgtgttttct tgcaacttct 240
 tggaagaata actccacaat agtctgagga ctagatacaa acctatttgc cattaagca 300
 ccagagtctg ttaattccag tactgataag tgttgagat tagactccag tgtgtcaagt 360
 ggccaagcgt ca 372

<210> 194
 <211> 309
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(309)
 <223> n = A,T,C or G

<400> 194
 tgacgcttgg ccacttgaca cttatgtaga atccatcgtg ggctgatgca agccctttat 60
 ttaggcttag tgttgtgggc accttcaata tcacactaga gacaaacgcc acaagatctg 120
 cagaaacatt cagttctgan cactcgaatg gcaggataac tttttgtgtt gtaatccttc 180
 acatatacaa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaata 240
 ttaagaaggg gtaaaggata ccactataa caaagtaact tacaactagt gtcaagtggc 300
 caagcgtca 309

<210> 195
 <211> 312
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(312)
 <223> n = A,T,C or G

<400> 195
 tgacgcttgg ccacttgaca cccaatctcg cacttcatcc tcccagcacc tgatgaagta 60
 ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggaccggat 120
 gggagcacag atttgtccga tcccagactc caagcactca gcgtcactcc aggacagcgg 180
 ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcagtc cgtgctgagt 240
 taaggcaatg gtgacacgga tgcacgtgtn acctgtaatg gttcatcgta agtgtcaagt 300
 ggccaagcgt ca 312

<210> 196
 <211> 288
 <212> DNA
 <213> Homo sapien

<400> 196
 tgtatcgacg tagtgggtctc ctcagccatg cagaactgtg actcaattaa acctctttcc 60
 tttatgaatt acccaatctc gggtagtgctc tttatagtag tgtgagaatg gactaataca 120
 agtacattttt acttagtaaa aataataaac aaatatatta cattttttgtg tattttactac 180
 accatattttt ttattgttat tgtagtgtac accttctact tattaaaaga aataggcccg 240
 agggggggcag atcacgaggt caggagatgg agaccactac gtcgatac 288

<210> 197
 <211> 289
 <212> DNA
 <213> Homo sapien

<400> 197
 ttgggcacct tcaatatcat gacaggtgat gtgataacca agaaggctac taagtgatta 60
 atgggtgggt aatgtataca gagtaggtac actggacaga ggggtaattc atagccaagg 120
 caggagaagc agaatggcaa aacatttcat cactactctc aggatagcat gcagtttaaa 180
 acctataagt agtttatttt tgggaattttc cacttaatat ttccagactg caggtaacta 240
 aactgtggaa cacaagaaca tagataaggg gagaccacta cgtcgatac 289

<210> 198
 <211> 288
 <212> DNA
 <213> Homo sapien

<400> 198
 gtatcgacgt agtgggtctcc caagcagtggt gaagaaaacg tgaaccaatt aaaatgtatc 60
 agatacccca aagaaaggcg cttgagtaaa gattccaagt gggtracaat ctcagatctt 120
 aaaattcagg ctgtcaaaga gatttgctat gaggttgctc tcaatgactt caggcacagt 180
 cggcaggaga ttgaagccct ggccattgtc aagatgaagg agcttttctgc catgtatggc 240
 aagaaagacc ccaatgagcg ggactcctgg agaccactac gtcgatac 288

<210> 199
 <211> 1027
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (1027)
 <223> n = A,T,C or G

<400> 199
 gcttttttggg aaaaacncaa ntgggggaaa gggggnttnn tngcaagggg ataaaggggg 60
 aancecaggg tttcccatc cagggaggtg taaaaagncg gccaggggat tgtaanagga 120
 ttcaataata gggggaatgg gccngaaagt tgcaagggtc cngcccgcga tgnccgcggg 180
 atttagtgac attacgacgs tggtataaaa gtgggsccaa waaatatttg tgatgtgatt 240

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Stress	4.5	1.5	1	7
Depression	2.5	1.5	0	5
Life Satisfaction	5.5	1.5	1	9
Work Satisfaction	4.5	1.5	1	7
Family Satisfaction	5.5	1.5	1	7
Community Satisfaction	4.5	1.5	1	7
Overall Satisfaction	5.0	1.5	1	7

<211> 207

<213> Homo sapien

agtgcatta	cgacgctggc	catcttgaat	cctagggcat	gaagtggcc	caaagttcag	60
cacttggtta	agcctgatcc	ctctgggtta	tcaaaaagaa	taggatggga	taaagaaagt	120
ggacacttaa	ataagctata	aattatatgg	tccttgtcta	gcaggagaca	actgcacagg	180
tatactacca	gcgtcgtaat	gtcacta				207

<211> 209

<213> Homo sapien

tgggcacctt	caatatctat	taaaagcaca	aatactgaag	aacacaccaa	gactatcaat	60
gaggttacat	ctggagtcct	cgatatatca	ggaaaaaatg	aagtgaacat	tcacagagtt	120
ttacttcttt	gggaactcaa	atgctagaaa	agaaaaaggt	gccctctttc	tctggcttcc	180
tggtcctatc	cagcgtcgta	atgtcacta				209

<211> 349

<213> Homo sapien

<221> misc feature

<223> n = A,T,C or G

```
ntacgctgca acactgtgga gccactgggt tttattcccc gcaggttatc cagcaaacag      60
tactgaaca caccgaagac cgtggatatg taaccgttca cagtaatcgt tccagtcgtc    120
tgcggggaccc cgacgagcgt cactgggtac agaccagatt cagccggaag agaaagcgcc    180
```

gcagggagag actcgaactc cactccgctg gtgagcagcc ccatgttttc aactcgaagt 240
 tcaaacggca ttgggttata taccatcagc tgaacttcac acacatctcc ttgaaccac 300
 tggaaatcta tttcttgtt ccgctcttct ccacagtgtt gcagcgtaa 349

<210> 203
 <211> 241
 <212> DNA
 <213> Homo sapien

<400> 203
 tgctcctctt gccttaccaa cccaaagccc actgtgaaat atgaagtga tgacaaaatt 60
 cagttttcaa cgcaatatag tatagtttat ctgattcttt tgatctccag gacacttta 120
 acaactgcta ccaccaccac caacctaggg atttaggatt ctccacagac cagaaattat 180
 ttctcctttg agtttcaggc tctctggga ctctgttca tcaatgggtg gtaaattggt 240
 a 241

<210> 204
 <211> 248
 <212> DNA
 <213> Homo sapien

<400> 204
 tagccattta ccaccatct gcaaaccswg acmwwcargr cywgwackya ggcgatttga 60
 agtactggta atgctctgat catgttagtt acataagtgt ggtcagttta caaaaattca 120
 cagaactaaa tactcaatgc tatgtgttca tgtctgtgt tatgtgtgtg taatgtttca 180
 attaagtttt tttaaaaaaa agagatgatt tccaaaataag aaagccgtgt tggttaaggca 240
 agaggagc 248

<210> 205
 <211> 505
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(505)
 <223> n = A,T,C or G

<400> 205
 tacgctgcaa cactgtggag ccattcatac aggtccctaa ttaaggaaca agtgattatg 60
 ctacctttgc acggttaggg taccgcggcc gttaaactat tgctactggg caggcgggtg 120
 ctetaatact ggtgatgcta gaggtgatgt ttttggtaaa caggcggggg aagatttgcc 180
 gagttccttt tacttttttt aacctttcct tatgagcatg cctgtgttgg gttgacagt 240
 ggggtaataa tgacttgttg gttgattgta gatattgggc tgtaattgt cagttcagt 300
 ttttaactcg acgcaggctt atgcggagga gaatgttttc atgttactta tactaacatt 360
 agttcttcta tagggtgata gattggtcca attgggtgtg aggagttcag ttatatgttt 420
 gggatttttt aggtatggg tgttgancct gaacgccttc ttaattgggt gctgctttta 480
 rgctactat ggggtgtaaa tggct 505

<210> 206
 <211> 179

Doc = 2000000000

SubA1

<212> DNA

<213> Homo sapien

<400> 206

tagactgact catgtcccct accaaagccc atgtaaggag ctgagttctt aaagactgaa 60
gacagactat tctctggaga aaaataaaat ggaaattgta ctttaaaaaa aaaaaaatc 120
ggccgggcat ggtagcacac acctgtaatc ccagctacta ggggacatga gtcagtcta 179

<210> 207

<211> 176

<212> DNA

<213> Homo sapien

<400> 207

agactgactc atgtccccta cccaccttc tgctgtgctg ccgtgttctt aacagggtcac 60
agactggtag tggtagtggt cctgggggtt ggggacctct attatatggg atacaaattt 120
aggagttaga attgacacga tttagttagt gatgggatat ggggtggtaaa tggcta 176

<210> 208

<211> 196

<212> DNA

<213> Homo sapien

<400> 208

agactgactc atgtccccta tttacaggg tctctagtgc tgtgaaaaaa aaaaatgctg 60
aacattgcat ataacttata ttgtaagaaa tactgtacaa tgactttatt gcactctgggt 120
agctgtaagg catgaaggat gccagaagt ttaaggaata tgggtggtaa atggctaggg 180
gacatgagtc agtcta 196

<210> 209

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 209

gacgcttggc cacttgacac cttttatctt ttaaggattc ttaagtcatt tangtnactt 60
tgtaagtttt tctgtgtccc ccataagaat gatagcttta aaaattatgc tggggtagca 120
aagaagatac ttctagcttt agaattgtga ggtatagcca ggattcttgc gaggaggggt 180
gatttagagc aaatttctta ttctccttgc ctcactctga acatggggat aataatagaa 240
ctggcttgac aagggttgaa ttagtattac atggtaaata catgtaaaat gtttagaatg 300
gtgccaaagta tctaggaagt acttgggcat ggggtggtaaa tggct 345

<210> 210

<211> 178

<212> DNA

<213> Homo sapien

CCGCAGGAGG

SubA1

~~400~~ 210

<211> 454

<213> Homo sapien

<400> 211

<211> 337

<213> Homo sapien

<400> 212

<211> 715

<213> Homo sapien

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (715)$

<223> n = A, T, C or G

<400> 213

acatacagaa atacattaag atattagaaa gtgtttttgc ttgtgtacta ctaattaggg 420
 aagcaccttg tatagttcct cttctaaaaat tgaagtagat tttaaaaacc catgtaattt 480
 aattgagctc tcagttcaga ttttaggaga attttaacag ggatttggtt ttgtctaaat 540
 tttgtcaatt ttttagtta atctgtataa tttataaat gtcaaaactgt atttagtccg 600
 ttttcatgct gctatgaaag aaataccan gacagggta tttataaang gaaagangtt 660
 aatttgactc ccagttcaca ggctgagga ngnatcnccc gaaatcctta ttgcg 715

<210> 214
 <211> 345
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(345)
 <223> n = A,T,C or G

<400> 214
 ggtaangngc atacntcggg gctcgggccc cggagtcgg gggattcggg tgatgcctcc 60
 tcaggcccac ttgggctgc tttcccaaa tggcagctcc tctggacatg ccattccttc 120
 tcccacctgc ctgattcttc atatgtggg tgtccctgtt tttctggtgc tatttcctga 180
 ctgctgttca gctgccactg tcctgcaaag cctgcctttt taaatgcctc accattcctt 240
 catttgtttc ttaaatatgg gaagtgaag tgccacctga ggccgggcac agtggctcac 300
 gcctgtaate ccagcacttt gggagcctga ggagggcatca cccga 345

<210> 215
 <211> 429
 <212> DNA
 <213> Homo sapien

<400> 215
 ggtgatgcct cctcaggcga agctcagggg ggacagaaac ctcccgtgga gcagaagggc 60
 aaaagctcgc ttgatcttga ttttcagtag gaatacagac cgtgaaagcg gggcctcacg 120
 atccttctga ccttttgggt tttaagcagg aggtgtcaga aaagttacca cagggataac 180
 tggcttggtg cggccaagcg ttcatacgga cgtcgtttt tgatccttcg atgtcggctc 240
 ttctatcat tgtgaagcag aattcaccaa gcgttggaatt gttcacccac taatagggaa 300
 cgtgagctgg gtttagaccg tctgagaca ggtagtttt accctactga tgatgtgtkg 360
 ttgccatggt aatcctgctc agtacgagag gaaccgcagg ttcasacatt tgggtgatgt 420
 gcttgccctt 429

<210> 216
 <211> 593
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(593)
 <223> n = A,T,C or G

<400> 216

GEO: S127560

Sub A1

SubA1

tgacacctat	gtcngcatc	tgttcacagt	ttccacaaat	agccagcctt	tggccacctc	60
tctgtcctga	ggtatacaag	tatatcagga	ggtgtatacc	ttctcttctc	ttccccacca	120
aagagaacat	gcaggctctg	gaagctgtct	taggagcctt	tgggctcaga	atttcagagt	180
cttgggtacc	ttggtatgtg	tctggaagga	gaaacattgg	ctctggataa	ggagtacagc	240
cggaggaggg	tcacagagcc	ctcagctcaa	gcccctgtgc	cttagtctaa	aagcagcttt	300
ggatgaggaa	gcaggtaag	taacatacgt	aagcgtacac	aggtagaaag	tgctgggagt	360
cagaattgca	cagtgtgtag	gagtagtacc	tcaatcaatg	agggcaaata	aactgaaaga	420
agaagaccna	ttaatgaatt	gcttangggg	aaggatcaag	gctatcatgg	agatctttct	480
aggaagatta	ttgtttanaa	ttatgaaagg	antagggcag	ggacagggcc	agaagtanaa	540
ganaacattg	cctatancco	ttgtcttgca	cccagatgct	ggacaagggtg	tca	593

<210> 217

<211> 335

<212> DNA

<213> Homo sapien

<400> 217

tgacaccttg	tccagcatct	gacgtgaaga	tgagcagctc	agaggaggtg	tcctggattt	60
cctggttctg	tgggctccgt	ggcaatgaat	tcttctgtga	agtggatgaa	gactacatcc	120
aggacaaatt	taatcttact	ggactcaatg	agcagggtccc	tactatcga	caagctctag	180
acatgatctt	ggacctggag	cctgatgaag	aactggaaga	caaccccaac	cagagtgacc	240
tgattgagca	ggcagccgag	atgctttatg	gattgatcca	cgcccgtac	atccttacca	300
accgtggcat	cgcccagatg	ctggacaagg	tgtca			335

<210> 218

<211> 248

<212> DNA

<213> Homo sapien

<400> 218

tacgtactgg	tcttgaaggt	cttaggtaga	gaaaaaatgt	gaatatttaa	tcaaagacta	60
tgtatgaaat	gggactgtaa	gtacagaggg	aagggtggcc	cttatcgcca	gaagttggta	120
gatgcgtccc	cgatcatgaa	tggtgtgtca	ctgcccagca	tttgccgaat	tactgaaatt	180
ccgtagaatt	agtgcaaat	ctaacgttgt	tcattctaaga	ttatggttcc	atgtttctag	240
tactttta						248

<210> 219

<211> 530

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (530)

<223> n = A,T,C or G

<400> 219

tgacgcttgg	ccacttgaca	caagtagggg	ataaggacaa	agacccatna	ggtggcctgt	60
cagccttttg	ttactgttgc	ttccctgtca	ccacggcccc	ctctgtaggg	gtgtgctgtg	120
ctctgtggac	attggtgcat	tttcacacat	accattctct	ttctgcttca	cagcagtcct	180
gaggcgggag	cacacaggac	taccttgtca	gatgangata	atgatgtctg	gccaactcac	240

[illegible]

<400> 220

```
<210> 221
<211> 530
<212> DNA
<213> Homo sapien
```

<400> 221

```
<210> 222
<211> 578
<212> DNA
<213> Homo sapien
```

<400> 222

tgtatcgacg	tagtgggtctc	cgggctacta	ggcgttgtg	tgtctggtagt	acctgggttca	60
ctgaaaggcg	catctccctc	cccgctgcgc	cctgaagcag	ggggaggact	tgcgccagcc	120

Sub-A1

```

aaggcagttg tatgagtttt agctgcggca cttcgagacc tctgagccca cctccttcag 180
gagccttccc cgattaagga agccagggtg aggattcctt cctccccag acaccacgaa 240
caaaccacca cccccctat tctggcagcc catatacatc agaacgaaac aaaaataaca 300
aataaacnaa aaccaaaaaa aaaagagaaag gggaaatgta tatgtctgtc catcctgttg 360
ctttagcctg tcagctccta nagggcaggg accgtgtctt ccgaatggtc tgtgcagcgc 420
cgactgcggg aagtatcgga ggaggaagca gagtcagcag aagttgaacg gtgggcccgg 480
cggctcttgg gggctggtgt tgtacttcga gaccgcttcc gctttttgtc ttagattttac 540
gtttgctctt tggagtggga naccactacn tcnataca 578

```

<210> 223
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 223

```

tgtatcgacg tagtgggtctc ctcttgcaaa ggactggctg gtgaatgggt tccctgaatt 60
atggacttac cctaaacata tcttatcatc attaccagtt gcaaaatatt agaatgtggt 120
gtcactgttt catttgattc ctagaagggt agtcttagat atgttacttt aacctgtatg 180
ctgtagtgct ttgaatgcat tttttgtttg cttttttgtt tgcccaacct gtcaattata 240
gctgcttagg tctggactgt cctggataaa gctgttaaaa tattcaccag tccagccatc 300
ttacaagcta attaagtcaa ctaaatgctt cctgtttttg ccagacttgt tatgtcaatc 360
ctcaatttct gggttcattt tgggtgcctt aaattttagg gtgtgacttt cttagcatcc 420
tgtaacatcc attcccaagc aagcacaact tcacataata ctttcagaa gttcattgct 480
gaagccttcc cttcaccag cgagcaact tgattttcta caacttcctt catcagagcc 540
acaagagtat gggatatgga gaccactacg tcgataca 578

```

<210> 224
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (345)
 <223> n = A,T,C or G

<400> 224

```

tgtatcgacg tantgggtctc ccaaggtgct gggattgcag gcatgagcca ccaactccag 60
gtggatcttt ttctttatata ttacttcatt aggtttctgt tattcaagaa gtgtagtggg 120
aaaagtcttt tcaatctaca tggttaaata atgatagcct gggaaataaa tagaaatttt 180
ttctttcatc tttaggttga ataaagaaac agaaaaataa gaacatactg aaaataatct 240
aagttccaac catagaagaa ctgcagaaga aatgaagaaa gtgatgatga tttagatttt 300
gatattgatt tagaagacac aggaggagac cactacgtcg ataca 345

```

<210> 225
 <211> 347
 <212> DNA
 <213> Homo sapien

<400> 225

```

tgtatcgacg tagtgggtctc caaactgagg tatgtgtgcc actagcacac aaagccttcc 60

```

[illegible]

```
<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G
```

```
<210> 227
<211> 3646
<212> DNA
<213> Homo sapien
```

<400> 227						
gggaaacact	tcctcccagc	cttgtgaaggg	ttggagccct	ctccagttata	tgctgcagaa	60
ttttttctctc	ggttttctcag	aggattatgg	agtcgcgcctt	aaaaaaggca	agctctggac	120
actctgcaaa	gtagaatggc	caaagtttgg	agttgagtg	ccccctgaag	ggctactgaa	180
cctcacaatt	gttcaagctg	tgtggcgggt	tgttactgaa	actcccgcc	tcctgatca	240
gtttccctac	attgatcaat	ggctgagttt	ggtcaggagc	acccctccg	tggtccact	300
catgcaccat	tcataatttt	acctccaagg	tcctcctgag	ccagaccgtg	ttttgcctc	360
gacctcagc	cggttcggt	cgccctgtac	tgectctctc	tgaagaagag	gagagtctcc	420
ctcaccagc	cccaccgct	taaaaccagc	ctactccctt	agggtcatcc	catgtctcct	480
cggctatgtc	ccctgtaggc	tcatacccca	ttgcctcttg	gttgcaaccg	tggtgggagg	540
aagtagcccc	tctactacca	ctgagagagg	cacaagtccc	tctgggtgat	gagtgtcca	600
cccccttct	ggtttatgtc	ccttctttct	acttctgact	tgtataattg	gaaaacccat	660
aatcctccct	tctctgaaaa	gccccaggct	ttgacctcac	tgatggagtc	tgtactctgg	720
acacattggc	ccacctggga	tgactgtcaa	cagctccctt	tgacctttt	cacctctgaa	780
gagagggaaa	gtatccaaag	agaggccaaa	aagtacaacc	tcacatcaac	caataggccg	840
gaggaggaag	ctagaggaat	agtgattaga	gaccaaatg	ggacctaat	gggacccaaa	900
tttctcaagt	ggagggagaa	cttttgacga	tttccaccgg	tatctcctcg	tggttattca	960
gggagctgct	cagaaaccta	taaacttgtc	taaggcgact	gaagtcgtcc	agggcatga	1020
tgagtcacca	ggagtgtttt	tagagcacct	ccaggaggct	tatcagattt	acacctctt	1080
tgacctggca	gcccccgaaa	atagccatgc	tcttaatttg	gcatttgagg	ctcaggtagc	1140
ccagatagt	aaaaggaaac	tccaaaaact	agagggattt	tgctggaatg	aataccagtc	1200
agctttttaga	gatagcctaa	aaggtttttg	acagtcaaga	ggttgaaaaa	caaaaaacaag	1260
cagctcaggc	agctgaaaaa	agccactgat	aaagcatcct	ggagtatcag	agtttactct	1320

Sub A1

tagatcagcc tcaattgact tccccccca catggtgttt aaatccagct acactacttc 1380
 ctgactcaaa ctccactatt cctgttcatg actgtcagga actgttggaa actactgaaa 1440
 ctggccgacc tgatcttcaa aatgtgcccc taggaaaggt ggatgccacc atgttcacag 1500
 acagtagcag ctctctcgag aagggaactac gaaaggccgg tgcagctgtt accatggaga 1560
 cagatgtgtt gtgggctcag gctttaccag caaacacctc agcacaaaag gctgaattga 1620
 tcgccctcac tcaggctctc cgatggggta aggatattaa cgtaaacact gacagcaggt 1680
 acgcctttgc tactgtgcat gtacgtggag ccatctacca ggagcgtggg ctactcacct 1740
 cagcaggtgg ctgtaatcca ctgtaaagga catcaaaagg aaaacacggc tgttgcccgt 1800
 ggtaaccaga aagctgattc agcagctcaa gatgcagtgt gactttcagt cacgcctcta 1860
 aacttgctgc ccacagtctc ctttccacag ccagatctgc ctgacaatcc cgcatactca 1920
 acagaagaag aaaactggcc tcagaaactca gagccaataa aaatcaggaa gggttggtgga 1980
 ttcttctga ctctagaatc ttcatcccc gaactcttgg gaaaacttta atcagtcacc 2040
 tacagtctac caccatttta ggaggagcaa agctacctca gtcctccgg agcgttttta 2100
 agatccccc tttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgccc 2160
 aggtaaatgc caaaaaaggt cctaaaccca gccaggcca ccgtctccaa gaaaactcac 2220
 caggagaaaa gtgggaaatt gactttacag aagtaaaacc acaccgggct gggtagaaat 2280
 accttctagt actggtagac accttctctg gatggactga agcatttget accaaaaacg 2340
 aaactgtcaa tatggtagt aaagtttttac tcaatgaaat catccctcga catgggctgc 2400
 ctgtttgcca tagggtctga taatggaccg gcttgcct tgtctatagt ttagtcagtc 2460
 agtaaggcgt taaacattca atggaagctc catgtgcct atcgacccca gagctctggg 2520
 caagtagaac gcatgaactg caccctaaaa aacactotta caaaattaat cttagaaacc 2580
 ggtgtaaatt gtgtaagtct ctttcttta gcccaactta gagtaagggtg cacccttac 2640
 tgggctgggt tcttaccttt tgaaatcatg tatgggaggg tgcctctat cttgcctaag 2700
 ctaagagatg cccaattggc aaaaatatca caaactaatt tattacagta cctacagtct 2760
 ccccaacagg tacaagatat catcctgcca cttgttcag gaacccatcc caatccaatt 2820
 cctgaacaga cagggccctg ccattcattc ccgccagggtg acctgttgtt tgtaaaaaag 2880
 ttccagagag aaggactccc tctgtcttg aagagacctc acaccgtcat cacgatgcca 2940
 acggctctga aggtggatgg cattcctgog tggattcatc actcccgcat caaaaaggcc 3000
 aacagagccc aactagaaac atgggtcccc agggctgggt caggccctt aaaactgcac 3060
 ctaagtggg tgaagccatt agattaatc tttttcttaa ctttgtaaaa caatgcatag 3120
 cttctgtcaa acttatgtat cttagactc aatataaccc cttgtttata actgaggaat 3180
 caatgatttg attcccccaa aaacacaagt ggggaatgta gtctccaacc tggtttttac 3240
 taacctgtt tttagactct ccttttctt taatcactca gctgtttcc acctgaattg 3300
 actctccctt agctaagagc gccagatgga ctccatcttg gctctttcac tggcagccgc 3360
 ttctcaagg acttaacttg tgcaagctga ctcccagcac atccaagaat gcaattaact 3420
 gataagatac tgtggcaagc tatatccgca gttcccagga attcgttcaa ttgatcacag 3480
 cccctctacc cttcagcaac caccacctg atcagtcagc agccatcagc accgaggcaa 3540
 ggccctccac cagcaaaaag attctgactc actgaagact tggatgatca ttagtatttt 3600
 tagcagtaaa gttttttttt ctttttctt ctttttttct cgtgcc 3646

<210> 228
 <211> 419
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

<400> 228

SubA1

taagagggta	caagatctaa	gcacagccgt	caatgcagaa	cacagaacgt	agcctggtaa	60
gtgtgttaag	agtgggaatt	tttggagtac	agagtaaggc	acctaaccct	agctgggggt	120
tgggtgacgt	cccagatggc	ttacagaaga	aagtgtcctg	agatgagttt	ttaagaatga	180
ataaggatag	acacaagtga	ggactgactt	ggcagtgggtg	aatgggtgggt	ggcaaaaaac	240
ttcgcatgta	tggaaactgc	acgtacagga	atgaagaatg	agactgtgtg	gtgtttaatg	300
agctgcaaat	actaatttta	tcctgaaagt	tttgaagagt	taactaaaaa	gtatttttta	360
gtaaggaaat	aaccctacat	ttcaggggta	ttgtttgttt	anatattgaa	ggtgcccaa	419

<210> 229

<211> 148

<212> DNA

<213> Homo sapien

<400> 229

aagaggggtac	ctgtatgtag	ccatgggtggc	aatgagagac	tgattactac	ctgctggaga	60
ttgtttaagt	gagttaatat	attaaggata	aaggagcca	ggttttttga	ctgttggaga	120
aggaaattac	agatattgaa	ggtcccaa				148

<210> 230

<211> 257

<212> DNA

<213> Homo sapien

<400> 230

taagagggta	cmaaaaaaaaa	aaaatagaac	gaatgagtaa	gacctactat	ttgatagtag	60
aacaggggtga	ctatagtcaa	tgataactta	attatacatt	taacatagag	tgtaattgga	120
ttgtttgtaa	ctcgaaggat	aaatgcttga	gaggatggat	acccatttct	ccatgatgta	180
cttatttcac	attacatgcc	tgtatcaaag	catctcatat	acctataaa	tatgtacacc	240
tactatgtac	cctctta					257

<210> 231

<211> 260

<212> DNA

<213> Homo sapien

<400> 231

taagagggta	cgggtatttg	ctgatgggat	ttttttttct	ttctttttct	ttggaaaaca	60
aaatgaaagc	cagaacaaaa	ttattgaaca	aaagacaggg	actaaatctg	gagaaatgaa	120
gtcccctcac	ctgactgcca	tttcattcta	tctgaccttc	cagtctaggt	taggagaata	180
gggggtggag	gggattaatc	tgatacaggt	atatttaaag	caactctgca	tgtgtgccag	240
aagtccatgg	taccctctta					260

<210> 232

<211> 596

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(596)

<223> n = A,T,C or G

[illegible]

<400> 235						
aacgaggaca	gatccttaaa	aagaatgttg	agtgaaaaaa	gtagaaaata	agataatctc	60
caaagtccag	tagcattatt	taaacatttt	taaaaaatac	actgataaaa	attttgtaca	120
tttcccaaaa	atacatatgg	aagcacagca	gcatgaatgc	ctatgggrtt	gaggataggg	180
gttgggagta	gggatgggga	taaaggggga	aaataaaaacc	agagaggagt	cttacacatt	240
tcatgaacca	aggagtataa	ttattttcaac	tattttgtacc	wgaagtccag	aaagagtggg	300
ggcagaaggg	ggagaagagg	gcgaagaaac	gtttttggga	gaggggtccc	asaagagaga	360
ttttcgcgat	gtggcgctac	atacgttttt	ccaggatgcc	ttaagctctg	caccctattt	420
ttctcatcac	taatattaga	ttaaaccctt	tgaagacagc	gtctgtgggt	tctctacttc	480
agctttccct	cogtgtcttg	cacacagtag	ctgtttttaca	agggttgaac	tgactgaagt	540
gagattattc						550

Sub A1
 <210> 236
 <211> 325
 <212> DNA
 <213> Homo sapien

<400> 236
 tagactgact catgtcccct accagagtag ctagaattaa tagcacaagc ctctacaccc 60
 aggaactcac tattgaatcac ataaatggaa tttatttcagc cttaaaaagt ttggaaggaa 120
 attctgacat atgctaaaac atggatgaac cttgaagact ttatgataag taaaagaagc 180
 cagtcataaa aggaaaaaata ttgcatgatt ccacttatat gaggtaccta gagtagtcaa 240
 tttcatagaa acacaaaata gaatgggtgtt tgccagggct tttgaggaaa agggaatgac 300
 aagttagggg acatgagtca gtcta 325

<210> 237
 <211> 373
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (373)
 <223> n = A,T,C or G

<400> 237
 tagactgact catgtcccct atctactcaa catttccact tgaagtctga taggcattctc 60
 agacttatct tgtcccaaag caaactcttt atttcttttc atcctagtct ttatttcttg 120
 tgctgtctta cccattctcaa aagagtgccaa aaatccacca agttgctgaa acagaaatct 180
 aagaaatctc cttgattctt ctttttccca tctacttcac ttctaattca ttagtaaata 240
 atctgtttca gaaaaccaa caccctcatgt tctcactcat aagggggagt tgaacaatga 300
 gaacacacag acacagggag gggaacatca cacaccacgg cccgtcaggg agtangggac 360
 atgagtcagt cta 373

<210> 238
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (492)
 <223> n = A,T,C or G

<400> 238
 tagactgact catgtcccct ataatgtctc caggcatcag aaagcatctc aaactggagc 60
 tgacaccatg gcagagggtt caggttaagtc acaaaagggg tcttaaagaa ttgcccctca 120
 atatcagagt gattagaaga agtggacaga gctacccaag ttaaacatat gcgagataaa 180
 aaaaatatgg cacttggtgaa cacacactac aggaggaaaa taaggaacat aatagcatat 240
 tgtgtctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa 300
 aattcctgcn aatgttttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt 360
 cagaaaagtt agcagggtcan aagaaaacaa atcaaagacc agaataatcc catttttagat 420

SubA1

tgctgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca 480
tgantcanc ta 492

<210> 239
<211> 482
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

<400> 239
tggaaagtat ttaatgatgg gcaacttgct gtttacttcc tacatatccc atcatcttct 60
gtattttttt aaataacttt ttttttgatt tttaaagtaa ccttattctg agaggtaaca 120
tggattacat acttctaagc cattaggaga ctctatgtta aacccaaaagg aaatgttact 180
agatcttcat ttgatcaata ggatgtgata atcatcatct ttctgctcta atggaaaagt 240
actanaaaca tgggaaccata atcttagatg aacaacgtta gaatttgcac taattctacg 300
gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat 360
ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac 420
acagtctttg attaaatatt cacatttttt cttacctaag agaccttcaa gaccagtacg 480
ta 482

<210> 240
<211> 519
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(519)
<223> n = A,T,C or G

<400> 240
tgtatcgacg tagtgggtct cccatgtgat agtctgaaat atagcctcat gggatgagag 60
gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga 120
aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcacctg ggaactgaat 180
gtctcgggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc 240
tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga 300
tgtttgggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc 360
tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct 420
tattatcacc ctgctctcct accgcattcc ttgtgctgag ataataaaaa taatatcaat 480
aaaaacttga nggaactcgg agaccactac gtcgatata 519

<210> 241
<211> 771
<212> DNA
<213> Homo sapien

<220>

[illegible]

tgtatcgacg	tagtgggtctc	cactcccgc	ttgacggggc	tgctatctgc	cttccaggcc	60
actgtcacgg	ctccccggta	gaagtcactt	atgagacaca	ccagtgtggc	cttgttggt	120
tgaagctcct	cagaggagg	tgggaacaga	gtgaccgagg	gggcagcctt	gggctgacct	180
aggacggtca	gcttggtcc	tccgccaaac	acgagagtgc	tgctgcttgt	atatgagctg	240
cagtaataat	cagcctcgto	ctcagcctgg	agcccagaga	tggtcaggga	ggcctgtgtg	300
ccanacttgg	agccagagaa	gcgattagaa	acccttgagg	gccgattacc	gacctcataa	360
atcatgaatt	tgggggcttt	gcttgggtgc	tggttggtacc	angagacatt	attataacca	420
ccaacgtcac	tgctgggtcc	antgcaggga	aaatggttga	tcaactgtc	caagaaaacc	480
actacgtcca	taccaatcca	ctaattgcn	gccgcctgca	ggttcaacca	tattggggaa	540
naactcccn	ccgcggttg	ggatgncat	naaccttga	aattttttcc	tattanttgt	600
ccccctaaaa	taaacnntg	ggcmtaate	cattgggtcc	atancttntt	tncccggttt	660
ttaaaanttg	tttatccgc	cncctnattt	ccccccaac	tttccaaaac	ccgaaacctt	720
tnaaatttnt	tnaaacctg	gggggttccc	nnaattnnan	ttnaanctnc	c	771

<400> 242						
tgggcacctt	caatatcggg	ctcatcgata	acatcacgct	gctgatgctg	ctgttgctgg	60
tctctctag	gaacctctgg	attttcaa	tctttgagga	attcatccaa	attatctgcc	120
tctcctcctt	tctcctcttt	tctaaggctt	tctgttacaa	gcgggtca		167

<400>	243						
ttggggcacct	tcaatatcta	ctgatctaaa	tagtgtggtt	tgaggcctct	tgttcctggc		60
taaaaatcct	tggcaagagt	caatctccac	tttacaatag	aggtaaaaat	cttacaatgg		120
atattcttga	caaagctagc	atagagacag	caattttaca	caaggatatt	ttcacctggt		180
taataacagt	ggtttttcta	cacccatagg	gtgccaccaa	gggaggagtg	cacagttgca		240
gaaacaaatt	aagatactga	agacaacact	acttaccatt	tcccgatatag	ctaaccacca		300
gttcaactgt	acatgtatgt	tcttatgggc	aatcaaga				338

<400> 244						
tttttggctc	ccatacagca	cactctcatg	ggaaatgtct	gttctaagggt	caaccataa	60
tgcaaaaatc	atcaatatac	ttgaagatcc	ccgtgtaagg	tacaatgtat	ttaattattat	120
cactgataca	attgatccaa	taccagtttt	agtctggcat	tgaatcaaat	cactgttttt	180

SubA1

```

gttggtataaa aagagaaata tttagcttat atttaagtac catattgtaa gaaaaaagat 240
gcttatcttt acatgctaaa atcatgatct gtacattggg gcagtgaata ttactgtaaa 300
agggagaag gaatgaagac gagctaagga tattgaaggt gcccaa 346

```

```

<210> 245
<211> 521
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(521)
<223> n = A,T,C or G

```

```

<400> 245
accaatccca caggatact gagggacaag tatatcatcc catttcatcc ctacagcagc 60
aacttcatga ggcaggagtt attagtcca ttttacagaa gaggaactg agacttaggg 120
agatcaagta atttgccag gtcgcacaat tagtgataga gccagggctt gaagcgacgt 180
ctgtcttaag ccaatgaccc ctgcagatta ttagagcaac tgttctccac aacagtgtaa 240
gcctcttgct anaagctcag gtccacaagg gcagagattt ttgtctgttt tgcctattgc 300
tccttcccca ttgcttagag cagggtctgc cacgaancag gttctcaatg catagttatt 360
aaatgtatat aagagcaaac atatgttaca gagaactttc tgtatgcttg tcacttacat 420
gaatcacctg tganatgggt atgcttgctc ccantgctg cagatnaaga tattgaangt 480
gcccaaatca ctanttgcgg gcgctgcan gtccancata t 521

```

```

<210> 246
<211> 482
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

```

```

<400> 246
tggaaccaat ccaaataccc atcaatgata gactggataa agaaaatttg gcacatgttc 60
accatgaaat actatgcagc cataaaaaag gatgagttca tatcctttgc agggacatgg 120
atgaagetgg agaccatcat tctcagcaaa ctaacaaggg aacagaaaac caaacactgc 180
atgttctcac tcttaagtgg gagctgaaca atgagaacac atggacacag ggaggggaac 240
atcacacagt ggggcctgct ggtgggtagg ggtctagggg agggatagca ttaggagaaa 300
tacctaattg agatgacggg ttgatgggtg cagcaaacca ccatgacacg tgtataccta 360
tgtaacaaac ctgcatgttc tgcacatgta cccagaact taaagtgtta ataaaaaaat 420
taagaaaaaa gttaagtatg tcatagatac ataaaatatt gtanatatgg aaggtgccca 480
aa 482

```

```

<210> 247
<211> 474
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 247
 ttcgatacag gcacagagta agcagaaaaa tggctgtggt ttaaccaagt gagtacagtt 60
 aagtgagaga ggggcagaga agacaagggc atatgcagg ggtgattata acaggtgggt 120
 gtgctgggaa gtgagggtac tccgggatga ggaacagtga aaaagtggca aaaagtggta 180
 agatcagtga attgtacttc tccagaatth gatttctggn ggagtcaaht aactatccag 240
 tttggggtat catanggcaa cagttgaggt ataggaggta gaagtcncag tgggataatt 300
 gaggttatga anggtttggt actgactggt actgacaang tctgggttat gacctggga 360
 atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420
 aaaaannnaa gnnnnngggg aatattattt atgtggatat tgaangtgcc caaa 474

<210> 248
 <211> 355
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

<400> 248
 ttcgatacag gcaaacaatga actgcaggag ggtggtgacg atcatgatgt tgccgatggt 60
 ccgatggnc acgaagacgc actggancac gtgattacgt ccttttgctc tgttgatggc 120
 cctgagggga cgcaggaccc ttatgacct cagaatcttc acaacgggag atggcactgg 180
 attgantccc antgacacca gagacacccc aaccacagc ataatcantat attgatgtag 240
 ttctgtaga nggccccctt gtggaggaaa gctccatnag ttggtcatct tcaacaggat 300
 ctcaacagtt tccgatggct gtgatgggca tagtcatant taacntgtn tcgaa 355

<210> 249
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 249
 ttggattggt cctccaggag aacaagggga aaaaggtgac cgaagggtcc ctggaactca 60
 aggatctcca ggagcaaaaag gggatggggg aattcctggt cctgctgggc ccttaggtcc 120
 acctggctct ccaggcttac caggtcctca aggcccaaag ggtaacaaaag gctctactgg 180
 acccgctggc cagaaaggtg acagtgggtc tccagggcct cctgggcctc cagggtccacc 240
 tggatgaagtc attcagcctt taccaatctt gtctccaaa aaaacgagaa gacatactga 300
 aggcattgcaa gcagatgcag atgataatat tcttgattac tccgatggaa tggagaagaa 360
 atttggttcc ctcaattccc tgaacaaga catcgagcat atgaaatttc caatgggtac 420
 tcagaccaat ccaa 434

<210> 250
 <211> 430
 <212> DNA

SubA1

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (430)

<223> n = A,T,C or G

<400> 250

tggattggtc	acatggcaga	gacaggatgc	caaggcagtg	agaggaggat	acaatgcttc	60
tcactagtta	ttattattta	ttttattttt	gagatgaagt	ctcgctttgt	ctcccaggct	120
ggagagcggg	ggtgcgactt	tggtctctct	caacccccgc	ctcaagcaat	tctcctgtct	180
tagcctcgcg	ggtagatgga	attacaggcg	cccaccgcca	tgcccaacta	atTTTTTTgt	240
gtcttcagta	gagacagggt	ttcgccatgt	tgggcaggct	ggtcttgaac	tcttgacctc	300
nagtgatctg	ccctcctcgg	cctcacaaag	tgctggaatt	acaggcatgg	gctgctgcac	360
ccagtcaact	tctcactagt	tatggcctta	tcattttcac	cacattctat	tggcccaaaa	420
aaaaaaaaan						430

<210> 251

<211> 329

<212> DNA

<213> Homo sapien

<400> 251

tggtactcca	ccatyatggg	gtcaaccgoc	atcctcgccc	tcctcctggc	tgttctccaa	60
ggagtctgtg	ccgagggtga	gctgrtgacg	tctggagcag	aggtgaaaaa	gtccggggag	120
tctctgaaga	tctcctgtaa	gggttctgga	tacaccttta	agatctactg	gatcgcttgg	180
gtgcgcagct	tgcccgggaa	aggcctggag	tggtatggggc	tcattctttcc	tgatgactct	240
gataccagat	acagcccgtc	cttccaaggc	caggtcacca	tctcagtcga	taagtccatc	300
agcaccgcct	atctgcagtg	gagtaccaa				329

<210> 252

<211> 536

<212> DNA

<213> Homo sapien

<400> 252

tggtactcca	ctcagcccaa	ccttaattaa	gaattaagag	ggaacctatt	actattctcc	60
caggctcctc	tgctctaacc	aggcttctgg	gacagtatta	gaaaaggatg	tctcaacaag	120
tatgtagatc	ctgtactggc	ctaagaagtt	aaactgagaa	tagcataaat	cagaccaaac	180
ttaatggtcg	ttgagacttg	tgtcctggag	cagctgggat	aggaaaactt	ttgggagcga	240
agaggaagaa	ctgcctggaa	gggggcatca	tggtaaaaat	tacaagggga	acccacacca	300
ggcccccttc	ccagctctca	gcctagagta	ttagcatttc	tcagctagag	actcacaact	360
tccttgctta	gaatgtgcc	ccggggggag	tccttgctgg	tgatgaggct	ctcaagagtg	420
agagtggcat	cctatcttct	gtgtgcccac	aggagcctgg	cccagactt	agcaggtgaa	480
gtttctggtc	caggctttgc	ccttgactca	ctatgtgacc	tctggtggag	taccaa	536

<210> 253

<211> 507

<212> DNA

<213> Homo sapien

GCEC = GCGE50

SubA1
 <220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 253
 ntgttgcgat cccagtaact cgggaagctg aggcgggagg atcacctgag ctcaggaggt 60
 tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtgagac 120
 cctccaagac agaaaagaaa agaaaggaag ggaaagggaag agggaaaagg aaaaggaaaa 180
 ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca 240
 attttatgtt cttttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc 300
 ctggttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca 360
 aatttgaata ttatatgcoa ggtgtttttc attcctgctc tcacttaatt ctcaccactc 420
 tgatataaat acaattgctg cggggtgtgg tggctcatgc ctgtaatccc ggcactttgg 480
 gagaccgagg tgggcggtats gcaacaa 507

<210> 254
 <211> 222
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

<400> 254
 ttggattggt cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60
 actggccaca ctttctcctg ccgccttctc caaagctgaa gacacacaga gcaaggcgct 120
 tctgttttac tcccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180
 tccacatccc tgctattcag tatagtccgt ggaccaatcc aa 222

<210> 255
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 255
 tgttgcgata cataaatgct gaaatggaaa taaacaacat gatgagggag gattaagttg 60
 gggagggagc acattaaggt ggccatgaag tttgttggaa gaagtgactt ttgaacaagg 120
 ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg 180
 agatgggaga gggcttggaa ggtgtgcaaa ataggaagga gtttgtctct gtatgagtct 240
 agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat 300
 taggcctgtt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360
 gagtgatggg aagccgtgga aaggggttga agcaaggagt gaaattatca gatttacagt 420
 gataaaaata aattggtctg gctactgggg aaaaaaaaaa aaa 463

<210> 256
 <211> 262
 <212> DNA
 <213> Homo sapien

<400> 256

ttggattggt caacctgctc aactctacyt ttctctcttc ttcttaaaaa attaatgaat 60
ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa agtattatc 120
cagaactgga cataatacta cataataata cataacaacc ccttcacatg gatgcaaaca 180
tctattaata tagcttaaga tcaactttcac ttacagaag caacatcctg ttgatgttat 240
tttgatgttt ggaccaatcc aa 262

<210> 257

<211> 461

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(461)

<223> n = A,T,C or G

<400> 257

gnngnnnnnn nnncaattcg actcngttcc cntggtance ggtcgacatg gccgcgggat 60
taccgcttgt nntcgggggt gtatggggga ctatgaccgc ttgtagctgg ggggtgatgg 120
gggactatga ccgctttag mtggkgtgt atgggggaact atgaccgctt gtcgggtggt 180
cggataaacc gacgcaagg acgtgacga agctgcgttc ccgctcttc gcatcgtag 240
ggatcatgga cagcaatc cgcattcgc tgaaggcgtt cgaccatgc gtgctcgatc 300
aggcgaccgg cgacatgcc gacaccgcac gccgtaccgg cgcgctcatc cgcggtccga 360
tcccgttcc cagcgcac gagaagttca cgggtcaaccg tggcccgac gtcgacaaga 420
agtgcgcga gcagttcgag gtgcgtacct acaagcggtc a 461

<210> 258

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 258

tgaccgcttg tagctggggg tgtatggggg actacgaccg ctgttagctg ggggtgatg 60
ggggactatg accgcttgta gctgggggtg tatgggggac tatgaccgct ttagctggg 120
ggtgtatggg ggactaggac cgctttagc tgggggtgta tgggggacta tgaccgcttg 180
tagctggggg tgtatggggg actacgaccg ctgttagctg ggggtgatg ggggactatg 240
accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgctt gggggatggg 300
aggagagttg tggttgggga aaaaaaaaaa aa 332

<210> 259

<211> 291

<212> DNA

<213> Homo sapien

Sub A

Sub A = 256-258

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 259
 taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
 gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
 gaccgcttgt gaccgcttgt nacnggggggt gtctggggga ctatgannga ntgtnactgg 180
 ggggtgtctgg gggnetatga nngantgtna cnggggggtgt ctgggggact atgannngact 240
 gtgcnnctcg ggggatcnga ggagantngn ggntagnat ggttngggan a 291

<210> 260
 <211> 238
 <212> DNA
 <213> Homo sapien

<400> 260
 taagagggta ctgggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac 60
 tttgaggtca gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg 120
 ctctgaagag gcccatgtat taattgcttt gatcttcctt ttcttacagc cctttcaagg 180
 gcagagccct ccttatcctg aaggaatctt atccttagct atagtatgta cctcttta 238

<210> 261
 <211> 746
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(746)
 <223> n = A,T,C or G

<400> 261
 ttgggcacct tcaatatcaa tagctaacat ttattgagtg tttatcgtat cataaaacac 60
 tgttctaagc ctttaaactg actaattcat ttaatgtctc taatcacttt agaaggtggg 120
 tactagtatt agtctcattt acagatgcaa catgcaggca gagagaggtt aattaacttg 180
 cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaaagt gggcttctgg 240
 gtaaccacaca gagtcttcaa tgagcctggg gcctcactca gtttgctttt acaaagcgaa 300
 tgagtaacat cacttaattc agtgagtagg ccaaattggag gtcagctacg agtttctgct 360
 gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420
 tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta 480
 tgttttaggat gacttttggc tggctcctagg gcaagctctg tctgscacgg aacacagaat 540
 wacacagggg cccctcaat ttctgggtgt gctagaacca tgaaccaatg gttgggggaa 600
 caagcgggtca aaacctaagt gcggccggct ggcagggtcc acccatatgg ggaaaactcc 660
 cnacgcgttt ggaatgcctn agctngaatt attctaanag ttgtccnctt aaaattagcc 720
 tgggcgttaa tcangggctn naagcc 746

<210> 262
 <211> 588
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(588)

<223> n = A,T,C or G

<400> 262

tgaccgcttg	tcatttcaca	tggggctctg	cacgcttttg	cctttgtagg	aaacctgaca	60
tttgtctgtt	tcttctttct	cttttccttc	ccatatactc	ctaatttacg	tttgacttgt	120
ttgctgagga	ggcaggagct	agagactgct	gtgagctcat	aggggtggga	agtttatcct	180
tcaagtcccg	cccactcctc	actgcttctc	accttcccc	gaccaggctt	acaagtgggt	240
tcttgcttgc	tttccctttg	gacccaacaa	gccccgttaa	tgagtgtgca	tgactctgac	300
agctgtggac	tcagggtcct	tggctacagc	tgccatgtaa	aatatctcat	ccagttctcg	360
caaattgtta	aaataaccac	atttcttaga	ttccagtacc	caaatcatgt	ctttacgaac	420
tgctctcac	acccagaagt	ggcacaataa	ttcttgggga	attattactt	tttttttct	480
ctctnttnc	gnnnngnnng	gnnnngccag	gaattaccac	nttggaagac	ctggccngaa	540
tttattatan	aggggagccg	attntttttc	ctaacacaaa	gcgggtca		588

<210> 263

<211> 730

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 263

ttttttttt	tttggcctga	gcaactgaaa	ttatgaaatt	tccatatact	caaaagagta	60
agactgcaaa	aagattaaat	gtaaaagttg	tcttgtatac	agtaatgttt	aagataccta	120
ttanatttat	aatggaaaa	ttagggcatt	tggatataca	agttgaaaat	tcaggagtga	180
ggttgggctg	gctgggtata	tactgaaaac	tgtcagtaca	cagatgacat	ctaaaaccac	240
aaatctgggt	ttatttttagc	agtgatatgt	gtcactccca	caaaagcctt	cccaattggc	300
ctcagcatac	acaacaagtc	acctccccac	agccctctac	acataaacia	attccttagt	360
ttagttcagg	aggaaatgcg	cccttttctt	tccgtctctg	gtgaccgcaa	ggcccagttc	420
tcgtcaccaa	gatgttaagg	gaagtctgcc	aaagaggcat	ctgaaaggaa	ataaggggaa	480
tgggagtgc	cacaaaggaa	agccaaggan	aaactttgga	gaccgtttct	aganccctgg	540
catttcacaa	caaaactcng	gaacaaacct	tgtctcatca	atcatttaag	cccttcgttt	600
ggannagact	ttctgaactg	ggcgtgaac	ataancctca	ttgaatgtct	tcacagtctc	660
ccagctgaag	gcacaccttg	ggccagaagg	ggaatcttcc	aggtcctcaa	nacagggctc	720
gccctttgnc						730

<210> 264

<211> 715

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(715)

<223> n = A,T,C or G

<400> 264

```

tttttttttt tttggccagt atgatagtct ctaccactat attgaagctc ttaggtcatt      60
tacacttaat gtggttatag atgctgttga gcttacttct accacettgc tatttctccc      120
gtctcttttt tgttcccttt ctcttctttt cctcccttat tttataattg aatttttttag      180
gattctattt tatatagatt tatcagctat aacactttgt attcttttgt tttgtggttc      240
ttctgtcatt tcaatgtgca tcttaaactc atcacaatct attttcaa ataatcatat      300
aaccttacat ataatgtaag aatctaccac catatatttc catttctccc ttccatccta      360
tgtntgtcat attttttcct ttatatatgt tttaaagaca taatagtata tgggaggttt      420
ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg      480
tttattctca aatnnaccta atatttccca ccatntctna tacntttcaa gaatctgaag      540
gcattggttt tttccgggtt aagaacctcc tctaaagcac tctaagcaga attaagtctt      600
ctgggagagg aattctccca agcttgggccc ttnanntgta ctcentnang gttaaanttt      660
ggccgggaaa tagaaattcc aagttaacag gntanttttt nttttnttn tcncc      715

```

<210> 265

<211> 152

<212> DNA

<213> Homo sapien

<400> 265

```

tttttttttt tttcccaaca caaagcacca ttatctttcc tcacaatttt caacatagtt      60
tgattcccat gaagaggtta tgatttctaa agaaaacatg gctactatac tatcaatcag      120
ggttaaactct ttttttttgg agacggagtt ta      152

```

<210> 266

<211> 193

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(193)

<223> n = A,T,C or G

<400> 266

```

taaactccgt cccctttotta atcaatatgg aggctacca ctccacatta ccttcttttc      60
aagggactgt ttccgtaact gttgtgggta ttcacgacca ggctttctaaa cctcttaaaa      120
ctccccaatt ctggtgccaa cttggacaac atgctttttt tttttttttt ttttttttn      180
gagacggagt tta      193

```

<210> 267

<211> 460

<212> DNA

<213> Homo sapien

<400> 267

```

tgttgcgac ccttaagcat ggggtgctatt aaaaaaatgg tggagaagaa aatacctgga      60
atttacgtct tatctttaga gattgggaag accctgatgg aggacgtgga gaacagcttc      120

```

Sub A1

```

ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180
ttgcagcaag gtacaaatgc tatgggattc tcccagggag gccaatttct gagggcagtg 240
gctcagagat gcccttcacc tcccatgata aatctgatct cggttggggg acaacatcaa 300
gggtgttttg gactccctcg atgccagga gagagctctc acatctgtga cttcatccga 360
aaaacactga atgtgggggc gtactccaaa gttgttcagg aacgcctcgt gcaagccgaa 420
tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460

```

<210> 268
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 268

```

tgttgcgac cgttgataga atagcgacgt ggtaatgagt gcatggcacg cctccgactt 60
accttcgccc gtggggaccc cgagtacgtc tacggcgctg tcaactagag taccctctgg 120
acgcccgggc gcgttcgatt taccggaagc gcgagctgca gtgggcttgc gccccggcc 180
aaattctttg ggggggttaa ggccgcgggg aatttgaggt atctctatca gtatgtagcc 240
aagttggaac agtcgccatt cccgaaatcg ctttctttga atccgcaccg cctccagcat 300
tgcctcattc atcaacctga aggacgcac aagtgaagggt tvtgtcttca gcagctccac 360
tccataacta gcgcgctcga cctcgtcttc gtacgcgcca ggcccgctgc tgcgaattcc 420
caactccggt gagttgcgca tttcaagttt cgaaatgtt cgctccacn atttggcatg 480
ttcacgcatg acacggaata aactcgtcca gtaccgggaa tgggatcgca aca 533

```

<210> 269
 <211> 50
 <212> DNA
 <213> Homo sapien

<400> 269

```

tttttttttt ttcgcctgaa ttagctacag atcctcctca caagcgtca 50

```

<210> 270
 <211> 519
 <212> DNA
 <213> Homo sapien

<400> 270

```

tgttgcgac caaataaccc accagcttct tgcacacttc gcagaagcca ccgtcctttg 60
gctgagtcac gtgaacggtc agtgcaagca gccgcgtgcc agagcagagg tgcagcatgc 120
tgcacaccag ctccgggctg acctcctcca gcaggatgga caggatggag ctgccgtacg 180
tgtccaccac ctcttgccac tcttccgaca gggacttcgg cagcttcgag cacattttgt 240
caaaagcgtc gagtatttct ttctcagtct tgttgttgtc aatcagcttg gtcacctcct 300
tcaccaggaa ttcacacacc tcacagtaaa catcagactt tgcgtgggacc tctgtcttct 360
taatgggctc caccagttcc agggcagggg tgacattctt ggaggccact ttggcgggga 420
ccagagtctg catgggcac tctttcacct catcacagaa cccaaccagc gcacagatct 480
ccttgggttg catgtgcac atcatctggg atcgcaaca 519

```

<210> 271
 <211> 457
 <212> DNA
 <213> Homo sapien

<400> 271
 tttttttttt ttccgggggc gaccggacgt gcactcctcc agtagcggct gcacgtcgtg 60
 ccaatggccc gctatgagga ggtgagcgtg tccggcttcg aggagttcca ccgggccgtg 120
 gaacagcaca atggcaagac ctttttcgcc tactttacgg gttctaagga cgcggggggg 180
 aaaagctggt gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac 240
 attagtgaag gatgtgtgtt catctactgc caagtaggag aagagcctta ttggaaagat 300
 ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgcctacact acttaagtat 360
 ggaacacctc aaaaactggt agaactctgag tgtcttcagg ccaacctggt ggaaatgttg 420
 ttctctgaag attaagattt taggatggca atcaaga 457

<210> 272
 <211> 102
 <212> DNA
 <213> Homo sapien

<400> 272
 tttttttttt ttgggcaaca acctgaatac cttttcaagg ctctggcttg ggctcaagcc 60
 cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga 102

<210> 273
 <211> 455
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(455)
 <223> n = A,T,C or G

<400> 273
 tttttttttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt 60
 ggcaatcaac aggtttaagt cttcggccga agttaatctc gtgttttttg caatcaacag 120
 gttaagtctc tcggccgaag ttaatctcgt gtttttggca atcaacaggt ttaagtcttc 180
 ggccgaagtt aatctcgtgt ttttggcaat caacaggttt aagtcttcgg ccgaagttaa 240
 tctcgtgttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt 300
 ggcaatcaag aggtttaagt cttcggccga agttaatctc gtgttttttg caatcaacag 360
 gttaagtctc tcggccgaan ttaatctcgt gtttttggca atcaacaggt ttaantcttc 420
 ggccgaagtt aatctcgtgt ttttggcaat caana 455

<210> 274
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 274

Sub A1

tttttttttt ttggccaata cccttgatga acatcaatgt gaaaatcctc ggtaaaatac 60
 tggcaaacca aatccagcag cacatcaaaa agcttatcca ccatgatcaa gtgggcttca 120
 tccctgggat gcaaggetgg ttcaacataa gaaaatcaat aaatgtaatc catcacataa 180
 acagaaccaaa agaaaaaac cacatgatta tctcaataga tgcagaaaag gccttggaca 240
 aattcaacag cccttcacgc taaacactct taataaacta gatattgatg gaatgtatct 300
 caaaataata agagctatct atgacaaacc cacagccaat atcatactga atgggcaaag 360
 actggaagca ttccctttga aaactggcac aagacaagga tgccctctct caccgctcct 420
 attcaacata gtattggaag ttctggccag ggcaatcaag a 461

<210> 275

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (729)

<223> n = A,T,C or G

<400> 275

tttttttttt ttggccaaca ccaagtcttc cacttgggag gttttattat gttttacaac 60
 catgaaaaca taggaagggtg gctgttacag caaaatcttc agatagacga atcgccaag 120
 ctcccaaac cccaccttca cagcctcttc cacacgtctc ccanagattg ttgtccttca 180
 cttgcaaatt canggatgtt ggaagtngac attttnnagtn gcnnggaaccc catcagtga 240
 ncantaagca gaantacgat gactttgana nacanctgat gaagaacacn ctacnganaa 300
 ccctttctnt cgtgttanga tctcnngtcc ntcaactaatg cggccccctg cnggtccacc 360
 atttgggaga actcccccn cgttggatcc ccccttgagt ntcccattct ngcccccan 420
 accngncttg ngngncantn cnnctcnca centgtttcc ctgnngtnaa aatnngtttt 480
 nccgcncnc naattccac ccnaatcaca gcgaancng aaggccttcn naagtgttta 540
 angccngng gtttctctnt ntanttgacg cctacctcc cnettnnnnt tncngttgg 600
 tcgcgcctg gncncgctn gttctcttt nnggnnaca cctngntcnn nggcnctcn 660
 mnnctnttc tnnnactagc tngcctntcc ncnccngngn ncanngcaca ttncncnnac 720
 tntgtnncc 729

<210> 276

<211> 339

<212> DNA

<213> Homo sapien

<400> 276

tgacctgaca tgtagtagat acttaataaa tatttgtgga atgaatggat gaagtggagt 60
 tacagagaaa aatagaaaag tacaaattgt tgtcagtgtt ttgaaggaaa attatgatct 120
 ttcccaaagt tctgacttca ttctaagaca gggtagtat ctccatacat aattttactt 180
 gcttttgaaa atcaaatgag ataacttatt tagattgata atttatttag actggctata 240
 aactattaag tgctagcaaa tatacatttt aatctcattt tccacctctt gtgatatagc 300
 tatgtagggtg ttgactttaa tggatgtcag gtcaatccc 339

<210> 277

<211> 664

<212> DNA

<213> Homo sapien

GCGG-GENE50

SubA1
 <220>
 <221> misc_feature
 <222> (1)...(664)
 <223> n = A,T,C or G

<400> 277
 tgacctgaca tccataacaa aatctttctc cattatatct ttctagggga atttcttgaa 60
 aagcatccaa aggaacacaa tgatggtaag accgtgccaa gtggggagca gacaccaaaag 120
 taagaccaca gattttacat tcaacaggta gctcacagta ctttgcccga cactgtgggc 180
 agaaatagcc tccaatgta agccctggct cagtattgcc atccaaatgc gccatgctga 240
 aagagggttt tgcatectgg tcagatnaag aagcaatggg gtgctgagga aatcccatac 300
 gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tgtgtgagca 360
 actctttgta atggctttca tctaaaataa catggtacgt gccaccagtt tcacgagcaa 420
 gtacagtga aacgcgaact tctgcagaca atccaataac agatactcta attttagctg 480
 cctttagggt cttgattaaa tctataatat tagatggatc gcaagttgta agnntgctaa 540
 aagatgatta gtacttctcg acttgatgt ccaggcatgt tgttttaaan tctgccttag 600
 ncctgctta ggggaatttt taaagaagat ggctctccat gtccanggtc aatcacnaat 660
 tgcc 664

<210> 278
 <211> 452
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(452)
 <223> n = A,T,C or G

<400> 278
 tgacctgaca ttgaggaaga gcacacacct ctgaaattcc ttaggttcag aagggcattt 60
 gacacagagt gggcctctga taattcatga aatgcattct gaagtcatcc agaatggagg 120
 ctgcaatctg ctgtgctttg ggggttgcc cactgtgctc ctggatatca cacaaaagct 180
 gcaatccttc ttcttcaact aacattttgc agtatttgc gggattttta ctgcagacat 240
 gatacatagc ccatagtgc cagagctgaa cctctgggtg agagaagtgt ccaaggagcg 300
 ggaaaaatgt cttgaaagat ctataggta ccaatgctgt catcttataa cttgaacttg 360
 gccaatctg tatgggtgca tgcagatctt ggagaagagt acgcctctgg aagtcacggg 420
 atatccaaan ctgtctgtca gatgtcaggt ca 452

<210> 279
 <211> 274
 <212> DNA
 <213> Homo sapien

<400> 279
 tttttttttt ttcggcaagg caaatttact tctgcaaaag ggtgctgctt gcacttttgg 60
 ccaactgag agcacaccaa acaaagtagg gaaggggttt ttatccctaa cgcggttatt 120
 ccctgggtct gtgtcgtgtc cccattggct ggagtcagac tgcacaatct acactgacct 180
 aactggctac tgtttaaaat tgaatatgaa taattaggta ggaaggggga ggctgtttgt 240
 tacggtacaa gacgtgtttg ggcattgtcag gtca 274

[illegible]

tacctgacat	ggagaaataa	cttgtagtat	tttgcggtga	atggaatact	atatgagggt	60
gaaaatgaat	gaactagcaa	tgcgtgtatc	aacatgaata	aatcccaaaa	acataataat	120
gttgaatgga	aaaggtgagt	ttcagaagga	tatatatgcc	ctctaaatcc	atttatgtaa	180
acctttaaaa	aactacatta	tttatgggtca	taagtccatc	cagaaaaatat	ttaaaaacct	240
acatgggatt	gataactact	gatgtcaggt	ca			272

```
<220>
<221> misc_feature
<222> (1) ... (431)
<223> n = A,T,C or G
```

```
<210> 282
<211> 98
<212> DNA
<213> Homo sapien
```

```
<210> 283
<211> 764
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G
```

SubA1
 <400> 283

tttttttttt ttgcgaagca cgtgcacttt attgaatgac actgtagaca ggtgtgtggg 60
 tataaactgc tgbatctagg ggcaggacca agggggcagg ggcaacagcc ccagcgtgca 120
 gggccascac tgcaacagtg astgcaaagg ttgcaggcta tgggcggcta ctavtaaccc 180
 cgtttttccg gtattatctg taacataata tggtagactg tcacagagcc gaatwccart 240
 hacasgatga atccaawggc caygaggatg cccasaatca gggcccasat sttcaggcac 300
 ttggcgggtg gggcatasgc ctgkgccccg gtcacgtcsc caaccwtcty cctgtcccta 360
 cmcttgawtc cncnccctnn nntnccntna tntgcccgc cncctcctng ngtaaccng 420
 natctgcaact anctccctcn ccccttntgg antctctcc ttcaantaan nttatccttn 480
 acnccccct cncctttccc ctnccncccn tnatccngn nccnctatca ntctnccct 540
 cncntnctn cnnatcggtc cncctnntaa ctacncttn nacnanncc cactnatncc 600
 ngnnantttc ttccttccc cccnaccgcn tgcgtgcgc cgtctngcct nnnctnccna 660
 cccnacttt atttacctt ncacctagc nctctacttn acccancnc tcctacctcc 720
 nggnccaccc nncctnate nctnctctn tennctentt cccc 764

<210> 284

<211> 157

<212> DNA

<213> Homo sapien

<400> 284

caagtgtagg cacagtgatg aaagcctgga gcaaacacaa tctgtgggta attaacgttt 60
 atttctcccc ttccaggaaac gtcttgcag gatgatcaaa gatcagctcc tggtaacat 120
 aaataagcta gtttaagata cgttccccta cacttga 157

<210> 285

<211> 150

<212> DNA

<213> Homo sapien

<400> 285

attcgattgt actcagacaa caatatgcta agtgggaagaa gtcagtcaca aaagaccaca 60
 tactgtatga cttcatttac attaagtgtc cagaataggc aaatccgtag agacagaaag 120
 tagatgagca gctgcctagg tctgagtaca 150

<210> 286

<211> 219

<212> DNA

<213> Homo sapien

<400> 286

attcgatttt tttttttttg gccatgatga aattcttact ccctcagatt ttttgtctgg 60
 ataaatgcaa gtctcaccac cagatgtgaa attacagtaa actttgaagg aatctcctga 120
 gcaaccttgg ttaggatcaa tccaatatc accatctggg aagtcaggat ggctgagttg 180
 caggtottta caagttcggg ctggattggg ctgagtaca 219

<210> 287

<211> 196

<212> DNA

<213> Homo sapien

ggcacgagga	gaaatgtaat	tccatatttt	atttgaaaact	tattccatat	tttaattgga	60
tattgagtga	ttgggttatc	aaacaccac	aaacttttaat	tttgtaaata	ttatatggct	120
ttgaaataga	agtataagtt	gctaccattt	tttgataaca	ttgaaagata	gtattttacc	180
atctttaatc	atcttggaat	atacaagtcc	tgtgaacaac	cactctttca	cctagcagca	240
tgaggccaaa	agtaaaggct	ttaaattata	acatatggga	ttcttagtag	tatgtttttt	300
tcttgaaaact	cagtggctct	atctaaccct	actatctcct	cactctttct	ctaagactaa	360
actctaggct	cttaaaaaatc	tgccacacc	aatcttagaa	gctctgaaaa	gaatttgtct	420
ttaaatatct	tttaatatga	acatgtattt	tatggaccaa	attgacattt	tcgactattt	480
tttccaaaaa	agtcagggtga	atttcagcac	actgagttgg	gaattttcta	tcccagaaga	540
ccaaccaatt	tcatatttat	ttaaagattga	ttccatactc	cgttttcaag	gagaatccct	600
gcagtctcct	taaaggtaga	acaaatactt	tctatttttt	tttccaccatt	gtgggattgg	660
actttaagag	gtgactctaa	aaaaacagag	aacaaatatg	tctcagttgt	attaagcacg	720
gacccatatt	atcatattca	cttaaaaaaa	tgatttctctg	tgcacctttt	ggcaacttct	780
cttttcaatg	tagggaaaaa	cttagtcacc	ctgaaaaccc	acaaaataaa	taaaacttgt	840
agatgtgggc	agaaggtttg	ggggtggaca	ttgtatgtgt	ttaaattaaa	ccctgtatca	900
ctgagaagct	gttgatggg	tcagagaaaa	tgaatgctta	gaagctgttc	acatcttcaa	960

Sub A1

gagcagaagc aaaccacatg tctcagctat attattattt attttttatg cataaagtga 1020
 atcatttctt ctgtattaat ttccaaaggg tttaccctc tatttaaagc ctttgaaaaa 1080
 cagtgcattg acaatgggtt gatatttttc tttaaaagaa aaatataatt atgaaagcca 1140
 agataatctg aagcctgttt tattttaaaa ctttttatgt tctgtgggtg atgttggttg 1200
 tttgtttgtt tctattttgt tgggttttta cttgtttttt tgttttgttt tgttttgttt 1260
 kgcatactac atgcagttct ttaaccaatg tctgtttggc taatgtaatt aaagtgtgta 1320
 atttatatga gtgcatttca actatgtcaa tggtttctta atatttattg tgtagaagta 1380
 ctggtaattt ttttatttac aatatgttta aagagataac agtttgatat gttttcatgt 1440
 gtttatagca gaagttattt atttctatgg cattccagcg gatatttttg tgtttgcgag 1500
 gcatgcagtc aatattttgt acagttagtg gacagtattc agcaacgcct gatagcttct 1560
 ttggccttat gttaataaaa aagacctgtt tgggatgtat tttttatttt taaaaaaaaa 1620
 aaaaaaaaaa aaaaaaaaaa aaaaaa 1646

<210> 291

<211> 1851

<212> DNA

<213> Homo sapien

<400> 291

tcaccacat tgccagcagc ggcaccgtta gtcaggtttt ctgggaatcc cacatgagta 60
 ctcccggtt ctccattctt ctccaatagc cataaatctt ctagctctgg ctggctgttt 120
 tcaacttctt taagccttg tgactcttc tctgatgtca gctttaagtc ttgttctgga 180
 ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
 caaattacat gatgatgact agaaacagca tactctctgg ccgtctttcc agatcttgag 300
 aagatacatc aacattttgc tcaagtagag ggcgtgactat acttgctgat ccacaacata 360
 cagcaagtat gagagcagtc ctcccatatc taccagcgc atttaaattc gcttttttct 420
 tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgta 480
 ggccatgctt gttttttgat tcatatcag caccgtataa gagcagtgct ttggccatta 540
 atttatcttc attgtagaca gcatagtgtg gactgtattt tccatactca tctggaatat 600
 ttggatcagt gccatgttcc agcaacatta acgcacattc atcttctctg cattgtacgg 660
 cctttgtcag agctgtcttc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
 gcacgagttt tactacttct gaattcccat tggcagaggg cagatgtaga gcagtcctct 780
 tttgctgtc cctctgttcc acatccgtgt ccttgagcat gacgatgaga tcctttctgg 840
 ggactttacc ccaccaggca gctctgtgga gcttgctcag atcttctcca tggacgtggg 900
 acctgggac catgaaggcg ctgtcatcgt agtctcccca agcgaccacg ttgctcttgc 960
 cgctccccctg cagcagggga agcagtgga gcaccacttg cactcttgc tcccaagcgt 1020
 ctccacagag gactcgttgt ggtctccaga agtgcacag ttgctcttgc cgctccccct 1080
 gtccatccag ggaggaagaa atgcaggaaa tgaaagatgc atgcacgatg gtatactcct 1140
 cagccatcaa acttctggac agcaggtcac ttccagcaag gtggagaaag ctgtccaccc 1200
 acagaggatg agatccagaa accacaatat ccattcaca acaaacactt ttcagccaga 1260
 cacaggatct gaaatcatgt catctgcggc aacatggtgg aacctacca atcacacatc 1320
 aagagatgaa gacactgcag tatatctgca caacgtaata ctcttcatc ataacaaaat 1380
 aatataattt tctctctggag ccatatggat gaactatgaa ggaagaactc cccgaagaag 1440
 ccagtcgcag agaagccaca ctgaagctct gtctcagcc atcagcgcca cggacaggar 1500
 tgtgtttctt cccagtgat gcagcctcaa gttatcccga agctgcgca goacacggtg 1560
 gctcctgaga aacaccccag ctcttccggt ctaacacagg caagtcaata aatgtgataa 1620
 tcacataaac agaattaaaa gcaaagtcac ataagcatc caacagacac agaaaaggca 1680
 tttgacaaaa tccagcatcc ttgtatttat tgttcagtt ctcagaggaa atgcttctaa 1740
 cttttcccca tttagtatta ttttggctgt gggctgtca taggtgggtt ttattacttt 1800
 aaggatgtc ccttctatgc ctgttttgct gagggtttta attctcgtgc c 1851

DDBP = 5000000000

SubA1
 <210> 292
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 292

tcacaccat tggcagcagc ggcaccgtta gtcagggttt ctgggaatcc cacatgagta 60
 cttccgtgtt cttcattctt cttcaatagc cataaatctt ctagctctgg ctggctgttt 120
 tcaattcctt taagcctttg tgactcttcc tctgatgtca gctttaagtc ttgttctgga 180
 ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
 caaattacat gatgatgact agaaacagca tactctctgg ccgtctttcc agatcttgag 300
 aagatacatc aacattttgc tcaagtagag ggctgactat acttgctgat ccacaacata 360
 cagcaagtat gagagcagtt cttccatata tatccagcgc atttaaattc gcttttttct 420
 tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgtga 480
 ggccatgctt gttttttgat tccatatacag caccgtataa gagcagtgtt ttggccatta 540
 atttatcttc attgtagaca gcatagtgtg gagggtatt tccatactca tctggaatat 600
 ttggatcagt gccatgttcc agcaacatta acgcacattc atcttctgg cattgtacgg 660
 cctttgtcag agctgtcttc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
 gcacgagttt tactacttct gaattcccat tggcagaggg cagatgtaga gcagtcctct 780
 tttgcttgct cctcttgctt acatccgtgt ccctgagcat gacgatgaga tcccttctgg 840
 ggactttacc ccaccaggca gctctgtgga gcttgtccag atcttctcca tggacgtggg 900
 acctgggac catgaaggcg ctgtcatcgt agtctcccca agcgaccacg ttgctcttgc 960
 cgctccctg cagcagggga agcagtgcca gcaccaattg cactcttgc tccaagcgt 1020
 cttcacagag gactcgttgt ggtctccaga agtgccacg ttgctcttgc cgctccctct 1080
 gtccatccag ggaggaagaa atgcaggaaa tgaaagatgc atgcacgatg gtatactcct 1140
 cagccatcaa acttctggac agcaggtcat tccagcaag gtggagaaaag ctgtccaccc 1200
 acagaggatg agatccagaa accacaatat ccattcacia acaaactt ttcagccaga 1260
 cacaggtact gaaatcatgt catctggggc aacatgggtg aacctacca atcacacatc 1320
 aagagatgaa gacactgcag tatacttgca caacgtaata ctcttcatcc ataacaaaat 1380
 aatataattt tctctggag ccatatggat gaactatgaa ggaagaactc cccgaagaag 1440
 ccagtcgcag agaagccaca ctgaagctct gtctcagcc atcagcgcca cggacaggag 1500
 tgtgtttctt cccagtgat gcagcctcaa gttatccga agctgccga gcacacgggtg 1560
 gtcctgaga aacaccccag ctcttccggt ctaacacagg caagtcaata aatgtgataa 1620
 tcacataaac agaattaaaa gcaaagtcac ataagcatct caacagacac agaaaaggca 1680
 tttgacaaaa tccagcatcc ttgtatttat tgttgagtt ctcagaggaa atgcttctaa 1740
 cttttcccca tttagtatta tgttggtgt gggctgtgca taggtggttt ttattacttt 1800
 aagggtatgtc ccttctatgc ctgttttgc gagggtttta attctcgtgc c 1851

<210> 293
 <211> 668
 <212> DNA
 <213> Homo sapien

<400> 293

cttgagcttc caaataygga agactggccc ttacacasgt caatgtttaa atgaatgcat 60
 ttcagtattt tgaagataaa attrtagat ctataccttg ttttttgat cgatatcagc 120
 accrtataag agcagtgtt tggccattaa tttatcttcc attrtagaca gcrtagtgya 180
 gagtgggtatt tccatactca tctggaatat ttggatcagt gccatgttcc agcaacatta 240
 acgcacattc atcttctgg cattgtacgg cctgtcagta ttagacccaa aaacaaatta 300
 catatcttag gaattcaaaa taacattcca cagctttcac caactagtta tatttaaaag 360
 agaaaactca tttttatgcc atgtattgaa atcaaaccga cctcatgctg atatagttgg 420

Sub A1

```

ctactgcata cctttatcag agctgtcctc tttttgttgt caaggacatt aagttgacat 480
cgtctgtcca gcaggagttt tactacttct gaattcccat tggcagaggc cagatgtaga 540
gcagtcctat gagagtgaga agacttttta ggaaattgta gtgcactagc tacagccata 600
gcaatgattc atgtaactgc aaacactgaa tagcctgcta ttactctgcc ttcaaaaaaa 660
aaaaaaa 668

```

<210> 294
 <211> 1512
 <212> DNA
 <213> Homo sapien

<400> 294

```

gggtcgccca ggggsgcgt gggctttcct cgggtgggtg tgggttttcc ctgggtgggg 60
tgggtcgggc trgaatcccc tgctgggggt ggcaggtttt ggctgggatt gacttttytc 120
ttcaaacaga ttggaaaccc ggagttacct gctagttggt gaaactgggt ggtagacgcg 180
atctgttggc tactactggc ttctcctggc tgttaaaagc agatgggtgg tgaggttgat 240
tccatgccgg ctgcttcttc tgtgaagaag ccatttggtc tcaggagcaa gatgggcaag 300
tgggtgctgcc gttgcttccc ctgctgcagg gagagcggca agagcaacgt gggcacttct 360
ggagaccacg acgactctgc tatgaagaca ctcaggagca agatgggcaa gtggtgccgc 420
cactgcttcc cctgctgcag ggggagtggt aagagcaacg tgggcgcttc tggagaccac 480
gacgaytctg ctatgaagac actcaggaac aagatgggca agtgggtgctg cactgcttc 540
ccctgctgca gggggagcrg caagagcaag gtgggcgctt ggggagacta cgatgacagt 600
gccttcatgg agcccaggta ccacgtccgt ggagaagatc tggacaagct ccacagagct 660
gcctgggtggg gtaaatgccc cagaaaggat ctcatcgta tgctcaggga cactgacgtg 720
aacaagaagg acaagcaaaa gaggactgct ctacatctgg cctctgcaa tgggaattca 780
gaagtagtaa aactcstgct ggacagacga tgtcaactta atgtccttga caacaaaaag 840
aggacagctc tgayaaaggc cgtacaatgc caggaagatg aatgtgcgtt aatgttgctg 900
gaacatggca ctgatccaaa tattccagat gagtatggaa ataccactct rcactaygct 960
rtctayaatg aagataaatt aatggccaaa gcaactgctt tatayggtgc tgatatcgaa 1020
tcaaaaaaca aggtatagat ctactaattt tatcttcaaa atactgaaat gcattcattt 1080
taacattgac gtgtgtaagg gccagtcttc cgtatttggg agctcaagca taacttgaat 1140
gaaaatattt tgaaatgacc taattatctm agactttatt ttaaattatt ttattttcaa 1200
agaagcatta gagggtagag tttttttttt ttaaattgcac ttctggtaaa tacttttgtt 1260
gaaaacactg aatttgtaaa aggttaatact tactattttt caatttttcc ctctaggat 1320
ttttttccc taatgaatgt aagatggcaa aatttgccct gaaatagggt ttacatgaaa 1380
actccaagaa aagttaaaca tgtttcagtg aatagagatc ctgctctttt ggcaagttcc 1440
taaaaaacag taatagatac gaggtgatgc gcctgtcagt ggcaagggtt aagatatttc 1500
tgatctcgtg cc 1512

```

<210> 295
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 295

```

gggtcgccca ggggsgcgt gggctttcct cgggtgggtg tgggttttcc ctgggtgggg 60
tgggtcgggc trgaatcccc tgctgggggt ggcaggtttt ggctgggatt gacttttytc 120
ttcaaacaga ttggaaaccc ggagttacct gctagttggt gaaactgggt ggtagacgcg 180
atctgttggc tactactggc ttctcctggc tgttaaaagc agatgggtgg tgaggttgat 240
tccatgccgg ctgcttcttc tgtgaagaag ccatttggtc tcaggagcaa gatgggcaag 300
tgggtgctgcc gttgcttccc ctgctgcagg gagagcggca agagcaacgt gggcacttct 360

```

Sub A1

ggagaccacg acgactctgc tatgaagaca ctcaggagca agatgggcaa gtggtgccgc 420
 cactgcttcc cctgctgcag ggggagtggc aagagcaacg tgggcgcttc tggagaccac 480
 gacgaytctg ctatgaagac actcaggaac aagatgggca agtgggtgctg ccactgcttc
 540ccctgctgca gggggagcrg caagagcaag gtgggcgctt ggggagacta cgatgacagy 600
 gccttcatgg akcccaggta ccacgtccrt ggagaagatc tggacaagct ccacagagct 660
 gcctgggtggg gtaaaagccc cagaaaggat ctcactgca tgctcagga cackgaytg 720
 aacaagargg acaagcaaaa gaggactgct ctacatctgg cctctgccaa tgggaattca 780
 gaagtagtaa aactcstgct ggacagacga tgtcaactta atgtccttga caacaaaaag 840
 aggacagctc tgayaaaggc cgtacaatgc caggaagatg aatgtgcgtt aatgttgctg 900
 gaacatggca ctgatccaaa tattecagat gagtatggaa ataccactct rcactaygct 960
 rtctayaatg aagataaatt aatggcctaaa gcactgctct tatayggtgc tgatatcgaa 1020
 tcaaaaaaca agcatggcct cacaccactg ytacttggrt tacatgagca aaaacagcaa 1080
 gtsgtgaaat ttttaatyaa gaaaaaagcg aatttaaaat gcrctggata gatatggaag 1140
 ractgctctc atacttgctg tatgttggg atcagcaagt atagtcagcc ytctacttga 1200
 gcaaaatrtt gatgtatctt ctcaagatct ggaaagacgg ccagagagta tgctgtttct 1260
 agtcatcatc atgtaatttg ccagttactt tctgactaca aagaaaaaca gatgttaaaa 1320
 atctctcttg aaaaacagcaa tccagaacaa gacttaaaagc tgacatcaga ggaagagtca 1380
 caaaggctta aaggaagtga aaacagccag ccagaggcat ggaaactttt aaatttaaac 1440
 ttttggttta atgttttttt tttttgcctt aataatatta gatagtcca aatgaaatwa 1500
 cctatgagac taggctttga gaatcaatag attctttttt taagaatctt ttggctagga 1560
 ggggtgtctc acgctgttaa ttccagcacc ttgagaggct gaggtgggca gatcacgaga 1620
 tcaggagatc gagaccatcc tggctaaccac ggtgaaaccc catctctact aaaaatacaa 1680
 aaacttagct ggggtgtggtg gcgggtgcct gtagtccag ctactcagga rgctaggca 1740
 ggagaatggc atgaaccgag gaggtggagg ttgcagtga cagagatccg ccactacact 1800
 ccagcctggg tgacagagca agactctgtc tcaaaaaaaa aaaaaaaaaa aaa 1853

<210> 296

<211> 2184

<212> DNA

<213> Homo sapien

<400> 296

ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgcggcagc ttccgggataa cttgaggctg catcactggg gaagaaacac aytctgtcc 360
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gctttctcgg 420
 ggagttcttc cttcatagtt catccatag gctccagagg aaaattatat tattttgtta 480
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
 ttgggtagggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
 aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
 gctttctcca ccttgcctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
 ccatcgtgca tgcacttttc atttctgca tttcttctc cctggatgga cagggggagc 780
 ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
 agcaagaggt gcaagtgggtg ctgccactgc ttccctgct gcaggggagc ggcaagagca 900
 acgtggctgc ttggggagac tacgatgaca gcgccttcat ggatcccagg taccacgtcc 960
 atggagaaga tctggacaag ctccacagag ctgcctgggtg gggtaaagtc cccagaaagg 1020
 atctcatcgt catgctcagg gacacggatg tgaacaagag ggacaagcaa aagaggactg 1080
 ctctacatct ggcctctgcc aatgggaatt cagaagtagt aaaactcgtg ctggacagac 1140

Sub A1

gatgtcaact	taatgtcctt	gacaacaaaa	agaggacagc	tctgacaaaag	gccgtacaat	1200
gccaggaaga	tgaatgtgcg	ttaatgttgc	tggaaacatgg	cactgatcca	aatattccag	1260
atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
aagcactgct	cttatacggg	gctgatatcg	aatcaaaaaa	caagcatggc	ctcacaccac	1380
tgctacttgg	tatacatgag	caaaaacagc	aagtgggtgaa	atttttaatc	aagaaaaaag	1440
cgaattttaa	tgcgctggat	agatatggaa	gaactgctct	catacttgct	gtatgtttgtg	1500
gatcagcaag	tatagtcagc	cctctacttg	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	1620
ttctgactac	aaagaaaaac	agatgtttaa	aatctcttct	gaaaacagca	atccagaaca	1680
agacttaaag	ctgacatcag	aggaagagtc	acaaaggcct	aaaggaagtg	aaaacagcca	1740
gccagaggca	tggaaacttt	ttaattttaa	cttttggttt	aatgtttttt	ttttttgcct	1800
taataatatt	agatagtcct	aatgaaatw	acctatgaga	ctaggctttg	agaatcaata	1860
gattcttttt	ttaagaatct	tttggctagg	agcgggtgtc	cacgcctgta	attccagcac	1920
cttgagaggc	tgaggtgggc	agatcacgag	atcaggagat	cgagaccatc	ctgggctaaca	1980
cgggtgaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtggg	ggcgggtgcc	2040
tgtagtccca	gctactcagg	argctgaggc	aggagaatgg	catgaaccgg	ggaggtggag	2100
gttgcatgta	gccgagatcc	gccactacac	tccagcctgg	gtgacagagc	aagactctgt	2160
ctcaaaaaaa	aaaaaaaaaa	aaaa				2184

<210> 297

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 297

tgcacgcac	ggccagtgtc	tgtgccacgt	acactgacgc	cccttgagat	gtgcacgccg	60
cacgcgcac	ttgcacgcgc	ggcagcggct	tggctggctt	gtaacggctt	gcacgcgcac	120
gccgccccg	cataaccgtc	agactggcct	gtaacggctt	gcagggcgac	gccgcacgcg	180
cgtaacggct	tggctgcctt	gtaacggctt	gcacgtgcat	gctgcacgcg	cgtaacggc	240
ttggctggca	tgtagccgct	tggcttggct	ttgcatttct	tgtctggctt	ggcgttgkty	300
tcttggattg	acgcttctct	cttggatkgc	cgtttctctc	ttggatkgac	gtttctytyt	360
tcgctgtctt	ttgctggact	tgacctttty	tctgctgggt	ttggcattcc	tttgggggtg	420
gctgggtgtt	ttctccgggg	gggktkgccc	ttctgggggt	gggcgtgggk	cgcccccagg	480
gggcgtgggc	tttccccggg	tgggtgtggg	ttttctggg	gtgggggtggg	ctgtgctggg	540
atccccctgc	tgggggttgg	agggattgac	ttttttcttc	aaacagattg	gaaacccgga	600
gtaacntgct	agttggtgaa	actggttggt	agacgcgac	tgctggtact	actgtttctc	660
ctggctgtta	aaagcagatg	gtggctgagg	ttgattcaat	gccggctgct	tcttctgtga	720
agaagccatt	tgggtctcag	agcaagatgg	gcaagtgggt	cgccactgct	tccccctgct	780
cagggggagc	ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	840
gacgcttggg	agcaagaggt	gcaagtgggt	ctgccactg	cttccccctgc	tgcaggggag	900
cggcaagagc	aacgtggkcg	cttggggaga	ctacgatgac	agcgccttca	tggakccag	960
gtaccacgct	crtggagaag	atctggacaa	gctccacaga	gctgcttggg	ggggtaaagt	1020
ccccagaaag	gatctcatcg	tcagtctcag	ggacactgay	gtgaacaaga	rggacaagca	1080
aaagaggact	gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	1140
gctggacaga	cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	1200
ggcgtacaa	tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gcactgatcc	1260

aaatattcca gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa 1320
 attaattggc aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagggtata 1380
 gatctactaa ttttatcttc aaaatactga aatgcattca ttttaacatt gacgtgtgta 1440
 agggccagtc ttccgtattt ggaagctcaa gcataacttg aatgaaaata ttttgaaatg 1500
 acctaatat ctaagacttt attttaaata ttgttatttt caaagaagca ttagagggta 1560
 cagttttttt tttttaaatg cacttctggg aaatactttt gttgaaaaca ctgaatttgt 1620
 aaaaggtaat acttactatt tttcaatttt tccctcctag gatttttttc ccctaatgaa 1680
 tgtaagatgg caaaatttgc cctgaaatag gttttacatg aaaactccaa gaaaagttaa 1740
 acatgtttca gtgaatagag atcctgctcc tttggcaagt tcctaaaaaa cagtaataga 1800
 tacgaggtga tgcgcctgtc agtggcaagg tttaagatat ttctgatctc gtgcc 1855

<210> 298

<211> 1059

<212> DNA

<213> Homo sapien

<400> 298

gcaacgtggg cacttctgga gaccacaacg actcctctgt gaagacgctt gggagcaaga 60
 ggtgcaagtg gtgctgcccc ctgcttcccc tgctgcaggg gagcggaag agcaacgtgg 120
 gcgcttgrgg agactmcgat gacagygcct tcatggagcc caggtaccac gtccgtggag 180
 aagatctgga caagctccac agagctgccc tgggtgggta aagtccccag aaaggatctc 240
 atcgatcatg tcagggacac tgaygtgaac aagarggaca agcaaaagag gactgctcta 300
 catctggcct ctgccaatgg gaattcagaa gtatgaaaac tctgtctgga cagacgatgt 360
 caacttaatg tcttgacaa caaaaagagg acagctctga yaaaggccgt acaatgccag 420
 gaagatgaat gtgcgttaat gttgctggaa catggcactg atccaaatat tccagatgag 480
 tatggaaata ccactctrca ctaygctrct tayaatgaag ataaattaat ggccaaaagca 540
 ctgctcttat ayggtgctga tatcgaatca aaaaacaagg tatagatcta ctaattttat 600
 cttcaaaata ctgaaatgca ttcattttta cattgacgtg tgtaagggcc agtcttccgt 660
 atttgaagc tcaagcataa cttgaatgaa aatattttga aatgacctaa ttatctaaga 720
 ctttatttta aatattgtta ttttcaaaga agcattagag ggtacagttt ttttttttta 780
 aatgcacttc tggtaaatac ttttgttgaa aacactgaat ttgtaaaagg taatacttac 840
 tatttttcaa tttttccctc ctaggatttt tttcccctaa tgaatgtaag atggcaaaat 900
 ttgcctgaa ataggtttta catgaaaact ccaagaaaag ttaaacaatgt ttcagtgaat 960
 agagatcctg ctcccttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc 1020
 tgtcagtggc aaggtttaag atatttctga tctcgtgcc 1059

<210> 299

<211> 329

<212> PRT

<213> Homo sapien

<400> 299

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
 1 5 10 15
 Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
 20 25 30
 Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
 35 40 45
 Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50 55 60
 Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val

Sub A1

65 70 75 80
 Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85 90 95
 Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100 105 110
 His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115 120 125
 Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 130 135 140
 Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 145 150 155 160
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 165 170 175
 Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
 180 185 190
 Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195 200 205
 Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210 215 220
 Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225 230 235 240
 Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
 245 250 255
 Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260 265 270
 Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275 280 285
 Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
 290 295 300
 Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
 305 310 315 320
 Ser Met Leu Phe Leu Val Ile Ile Met
 325

<210> 300

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 300

Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile
 1 5 10 15
 Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
 20 25 30
 Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
 35 40 45

Sub A1

Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
 50 55 60
 Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
 65 70 75 80
 Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
 85 90 95
 Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
 100 105 110
 Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
 115 120 125
 Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
 130 135 140
 Lys Asn Lys Val
 145

<210> 301
 <211> 1155
 <212> DNA
 <213> Homo sapien

<400> 301

atggtggttg aggttgattc catgccggtt gcctcttctg tgaagaagcc atttggtctc 60
 aggagcaaga tgggcaagtg gtgctgccgt tgcctccctt gctgcaggga gagcggcaag 120
 agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
 atgggcaagt ggtgccgcca ctgcttcccc tgcctcaggga ggagtggcaa gagcaactg 240
 ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag cccagggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaagatct catcgtcatg 480
 ctccaggaca ctgacgtgaa caagaaggac aagcaaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctggt acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt atttggtgta 840
 catgagcaaa aacagcaagt cgtgaaattt ttaatcaaga aaaaagcgaa ttbaaatgca 900
 ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
 gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgaattac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
 accagaaata aataa 1155

<210> 302
 <211> 2000
 <212> DNA
 <213> Homo sapien

<400> 302

atggtggttg aggttgattc catgccggtt gcctcttctg tgaagaagcc atttggtctc 60
 aggagcaaga tgggcaagtg gtgctgccgt tgcctccctt gctgcaggga gagcggcaag 120
 agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180

Sub A1

atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgttcttg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaagggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggg aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atatcgaaat aaaaaacaag catggcctca caccactgtt acttggtgta 840
 catgagcaaa aacagcaagt cgtgaaattt ttaatcaaga aaaaagcgaa tttaaatgca 900
 ctggatagat atggaaggac tgctctcata ctgctgtat gttgtggatc agcaagtata 960
 gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcctcat catgtaattt gccagttact ttctgactac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaca agacttaaaag 1140
 ctgacatcag aggaagagtc acaaagggtc aaaggcagtg aaaatagcca gccagagaaa 1200
 atgtctcaag aaccagaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260
 aagcatgaaa gtaataatgt gggattacta gaaaacctga ctaatggtgt cactgctggc 1320
 aatggtgata atggattaat tctcaaaagg aagagcagaa cacctgaaaa tcagcaattt 1380
 cctgacaacg aaagtgaaga gtatcacaga atttggaat tagtttctga ctacaaagaa 1440
 aaacagatgc caaaatactc ttctgaaaac agcaaccag aacaagactt aaagctgaca 1500
 tcagaygaag agtcacaaag gcttgagggc agtgaaaatg gccagccaga gctagaaaaat 1560
 tttatggcta tcgaagaaat gaagaagcac ggaagtactc atgtcggatt ccagaaaaac 1620
 ctgactaatg gtgccactgc tggcaatggt gatgatggat taattcctcc aaggaagagc 1680
 agaacacctg aaagccagca atttctgac actgagaatg aagagtatca cagtacgaa 1740
 caaaatgata ctgagaagca attttgtgaa gaacagaaca ctggaatatt acacgatgag 1800
 attctgatcc atgaagaaaa gcagatagaa gtggttgaaa aaatgaattc tgagctttct 1860
 cttagtgtga agaaagaaaa agacatcttg catgaaaata gtacgttgcg ggaagaaatt 1920
 gccatgctaa gactggagct agacacaatg aaacatcaga gccagctaaa aaaaaaaaaa 1980
 aaaaaaaaaa aaaaaaaaaa 2000

<210> 303

<211> 2040

<212> DNA

<213> Homo sapien

<400> 303

atggtggttg aggttgattc catgccggct gcctcttctg tgaagaagcc atttgggttc 60
 aggagcaaga tgggcaagtg gtgctgccgt tgcttcccct gctgcaggga gagcggaag 120
 agcaacgtgg gcacttcttg agaccacgac gactctgcta tgaagacact caggagcaag 180
 atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgttcttg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaagggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtggggg aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780

[illegible]

<400> 304

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
1				5					10					15	
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
			115				120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170						175
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu

Sub A1

180	185	190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr		
195	200	205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met		
210	215	220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn		
225	230	235
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys		
245	250	255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly		
260	265	270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val		
275	280	285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr		
290	295	300
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile		
305	310	315
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu		
325	330	335
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val		
340	345	350
Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile		
355	360	365
Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys		
370	375	380

<210> 305

<211> 656

<212> PRT

<213> Homo sapien

<400> 305

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys		
1	5	10
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe		
20	25	30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp		
35	40	45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp		
50	55	60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val		
65	70	75
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn		
85	90	95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser		
100	105	110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe		
115	120	125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His		
130	135	140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met		

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

[illegible]

<div> <div><400> 306</div> <div>Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys</div> <div>1 5 10 15</div> </div>																
<div> <div>Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe</div> <div>20 25 30</div> </div>																
<div> <div>Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp</div> <div>35 40 45</div> </div>																
<div> <div>His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp</div> <div>50 55 60</div> </div>																
<div> <div>Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val</div> <div>65 70 75 80</div> </div>																
<div> <div>Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn</div> <div>85 90 95</div> </div>																
<div> <div>Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser</div> <div>100 105 110</div> </div>																
<div> <div>Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe</div> <div>115 120 125</div> </div>																
<div> <div>Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His</div> <div>130 135 140</div> </div>																
<div> <div>Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met</div> <div>145 150 155 160</div> </div>																
<div> <div>Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala</div> <div>165 170 175</div> </div>																
<div> <div>Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu</div> <div>180 185 190</div> </div>																
<div> <div>Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr</div> <div>195 200 205</div> </div>																
<div> <div>Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met</div> <div>210 215 220</div> </div>																
<div> <div>Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn</div> <div>225 230 235 240</div> </div>																
<div> <div>Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys</div> <div>245 250 255</div> </div>																

Sub A1

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu

660

665

670

<210> 307
 <211> 800
 <212> DNA
 <213> Homo sapien

<400> 307

atkagcttcc	gcttctgaca	acactagaga	tccctcccct	ccctcagggt	atggccctcc	60
acttcatttt	tggtacataa	catctttata	ggacaggggt	aaaatcccaa	tactaacagg	120
agaatgctta	ggactctaac	aggtttttga	gaatgtgttg	gtaagggcca	ctcaatccaa	180
tttttcttgg	tcctccttgt	ggtctaggag	gacaggcaag	ggtgcagatt	ttcaagaatg	240
catcagtaag	ggccactaaa	tccgaccttc	ctcgttcctc	cttgtggtct	gggaggaaaa	300
ctagtgtttc	tgttgctgtg	tcagttagca	caactattcc	gatcagcagg	gtccagggac	360
cactgcagggt	tcttgggcag	ggggagaaac	aaaacaaacc	aaaaccatgg	gcrgttttgt	420
ctttcagatg	ggaaacactc	aggcatcaac	aggctcacct	ttgaaatgca	tcctaagcca	480
atgggacaaa	tttgaccac	aaaccttga	aaaagagggtg	gtcattttt	tttgactat	540
ggcttgcccc	caacattctc	tctctgatgg	ggaaaaatgg	ccacctgagg	gaagtacaga	600
ttacaatact	atcctgcagc	ttgacctttt	ctgtaagagg	gaaggcaa	ggagtgaat	660
accttatgtc	caagctttct	tttcattgaa	ggagaataca	ctatgcaaag	cttgaaattt	720
acatcccaca	ggaggacctc	tcagcttacc	cccatatcct	agcctcccta	tagctcccct	780
tcctattagt	gataagcctc					800

<210> 308
 <211> 102
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)... (102)
 <223> Xaa = Any Amino Acid

<400> 308

Met	Gly	Xaa	Phe	Val	Phe	Gln	Met	Gly	Asn	Thr	Gln	Ala	Ser	Thr	Gly
1				5				10						15	
Ser	Pro	Leu	Lys	Cys	Ile	Leu	Ser	Gln	Trp	Asp	Lys	Phe	Asp	Pro	Gln
			20					25					30		
Thr	Leu	Glu	Lys	Glu	Val	Ala	His	Phe	Phe	Cys	Thr	Met	Ala	Trp	Pro
			35				40					45			
Gln	His	Ser	Leu	Ser	Asp	Gly	Glu	Lys	Trp	Pro	Pro	Glu	Gly	Ser	Thr
			50			55				60					
Asp	Tyr	Asn	Thr	Ile	Leu	Gln	Leu	Asp	Leu	Phe	Cys	Lys	Arg	Glu	Gly
65				70				75						80	
Lys	Trp	Ser	Glu	Ile	Pro	Tyr	Val	Gln	Ala	Phe	Phe	Ser	Leu	Lys	Glu
				85				90						95	
Asn	Thr	Leu	Cys	Lys	Ala										
				100											

<210> 309
 <211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Made in the lab

<400> 309
Leu Met Ala Glu Glu Tyr Thr Ile Val
1 5

<210> 310
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in the lab

<400> 310
Lys Leu Met Ala Lys Ala Leu Leu Leu
1 5

<210> 311
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in the lab

<400> 311
Gly Leu Thr Pro Leu Leu Gly Ile
1 5

<210> 312
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in the lab

<400> 312
Lys Leu Val Leu Asp Arg Arg Cys Gln Leu
1 5 10

<210> 313
<211> 1852
<212> DNA
<213> Homo sapiens

Sub A1

CCCCCCCCCCCC

<400> 313

ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gctgtgttta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgcggcagc ttctggataa cttgaggctg catcactggg gaagaaacac aytectgtcc 360
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
 ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
 ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
 aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
 gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
 ccatcgtgca tgcactcttc atttcctgca tttcttctc cctggatgga cagggggagc 780
 ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
 agcaagaggt gcaagtgggt ctgccactgc ttccctgct gcagggggag cggcaagagc 900
 aacgtggctg cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
 catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt cccagaaaag 1020
 gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
 gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
 cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
 tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcaactgatc aaatattcca 1260
 gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
 aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
 ctgctacttg gtatacatga gcaaaaacag caagtgtgta aatttttaac caagaaaaaa 1440
 gcgaatttaa atgcgctgga tagatatgga agaactgctc tcataactgc tgtatgttgt 1500
 ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
 ctggaaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
 tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagAAC 1680
 aagacttaaa gctgacatca gaggaagagt cacaagggtt taaaggaagt gaaaacagcc 1740
 agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
 tgggattccc agaaaacctg actaacggtg ccgctgctgg caatgtgat ga 1852

<210> 314

<211> 879

<212> DNA

<213> Homo sapiens

<400> 314

atgcatcttt catttctgc atttcttct ccttggatgg acagggggag cggcaagagc 60
 aacgtgggca cttctggaga ccacaacgac tctctgtga agacgcttg gagcaagagg 120
 tgcaagtggg gctgccactg cttccctgct tgcaggggga gcggcaagag caacgtggtc 180
 gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
 gatctggaca agctccacag agctgcttgg tggggtaaag tccccagaaa ggatctcatc 300
 gtcattgctc gggacacgga tgtgaacaag agggacaagc aaaagaggag tgctctacat 360
 ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
 cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
 gatgaatgtg cgttaatgtt gctggaacat ggcaactgat caaatattcc agatgagtat 540
 ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
 ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gctcacacc actgctactt 660
 ggtatacatg agcaaaaaa gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720

```
<210> 315
<211> 293
<212> PRT
<213> Homo sapiens
```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
20 25 30

Val Lys Thr Leu Gly Ser Lys ~~Arg~~ Cys Lys Trp Cys Cys His Cys Phe
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala ~~Asn~~ Gly Asn Ser
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu ~~Asn~~ Val Leu
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
275 280 285

Val Ile Ile Met
290

<210> 316

<211> 584

<212> DNA

<213> Homo sapiens

<400> 316

agttgggcca aattcccctc cccctacagc ttgaagggga cataaccaat agcctgggggt 60
ttttttgtgg tccttttgag atttctttgc ttattttctt ctgggtgggg gtgattagag 120
gaggcttatc actaatagga aggggagcta tagggaggct aggatatggg ggtaagctga 180
gaggctctcc tgtgggatgt aaatttcaag ctttgcatag tgtattctcc ttcaatgaaa 240
agaaagcttg gacataagggt atttcaactcc atttgccttc cctcttacag aaaagggtcaa 300
gctgcaggat agtattgtaa tctgtacttc cctcagggtg ccatttttcc ccatcagaga 360
gagaatgttg gggccaagcc atagtgcaga aaaaaaatg agccacctct tttccagggt 420
tttgtgggtc aaatttgtcc cattggctta ggatgcattt caaagggtgag cctgttgatg 480
cctgagtgtt tcccatctga aagacaaaac tgcccatggt tttggtttgt tttgtttctc 540
ccctgcca agaactatca aactcctgag ccaacaacta aaaa 584

<210> 317

<211> 829

<212> DNA

<213> Homo sapiens

<400> 317

attagcttcc gcttctgaca acactagaga tccctcccct ccctcagggt atgcccctcc 60
acttcatatt tggtacataa catctttata ggacaggggt aaaatcccaa tactaacagg 120
agaatgctta ggactctaac aggtttttga gaatgtgttg gtaagggcca ctcaatccaa 180
tttttcttgg tcctccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
catcagtaag ggccactaaa tccgaccttc ctctgttctc cttgtggtct gggaggaaaa 300
ctagtgtttc tgttgctgtg tcagtgcaga caactattcc gatcagcagg gtccagggac 360
cactgcagggt tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcagttttgt 420
ctttcagatg ggaaacactc aggcataaac aggtcacct ttgaaatgca tcctaagcca 480
atgggacaaa tttgaccac aaaccctgga aaaagagggt gctcattttt tttgcactat 540
ggcttgcccc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
ttacaatact atcctgcagc ttgacctttt ctgtaagagg gaaggcaaat ggagtgaat 660
accttatgtc caagctttct tttcattgaa ggagaataca ctatgcaaag cttgaaattt 720

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	1.5	10	15
Income	35000	15000	20000	60000
Health	0.8	0.4	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.5	0.5	0	1
Stress	0.6	0.5	0	1
Depression	0.4	0.5	0	1
Loneliness	0.5	0.5	0	1
Life Satisfaction	0.7	0.4	0	1
Quality of Life	0.8	0.3	0	1
Overall Health	0.9	0.2	0	1